```
                                  bounds (m/s) defined in Group 12
          5 =       Temperature   (12 scaling factors, where temperature
                                  classes have upper bounds (C) of:
                                  0, 5, 10, 15, 20, 25, 30, 35, 40,
                                  45, 50, 50+)
```

---

[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

---

INPUT GROUPS: 15a, 15b, 15c -- Line source parameters

---

Subgroup (15a)

```
     Number of buoyant line sources
     with variable location and emission
     parameters (NLN2)                          No default  !  NLN2 =  0   !

     (If NLN2 > 0, ALL parameter data for
      these sources are read from the file: LNEMARB.DAT)

     Number of buoyant line sources (NLINES)    No default   ! NLINES =  0
!

     Units used for line source
     emissions below                (ILNU)      Default: 1  !  ILNU =   1  !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min
           7 =     metric tons/yr

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (15c)        (NSLN1) Default: 0  !  NSLN1 =  0  !

     Maximum number of segments used to model
     each line (MXNSEG)                         Default: 7   ! MXNSEG =  7
!

     The following variables are required only if NLINES > 0.  They are
     used in the buoyant line source plume rise calculations.

        Number of distances at which            Default: 6   ! NLRISE =  6
!
```

```
        transitional rise is computed

        Average building length (XL)                  No default   ! XL = .0 !
                                                      (in meters)

        Average building height (HBL)                 No default   ! HBL = .0 !
                                                      (in meters)

        Average building width (WBL)                  No default   ! WBL = .0 !
                                                      (in meters)

        Average line source width (WML)               No default   ! WML = .0 !
                                                      (in meters)

        Average separation between buildings (DXL)    No default   ! DXL = .0 !
                                                      (in meters)

        Average buoyancy parameter (FPRIMEL)          No default   ! FPRIMEL = .0
!
                                                      (in m**4/s**3)

!END!

---------------
Subgroup (15b)
---------------

          BUOYANT LINE SOURCE: CONSTANT DATA
          ----------------------------------

a
Source     Beg. X      Beg. Y      End. X    End. Y     Release    Base
Emission
 No.     Coordinate  Coordinate  Coordinate Coordinate  Height    Elevation
Rates
            (km)        (km)        (km)       (km)       (m)        (m)
------   ----------  ----------  ---------  ----------  -------   ---------    -
--------

--------

    a
     Data for each source are treated as a separate input subgroup
     and therefore must end with an input group terminator.

    b
     An emission rate must be entered for every pollutant modeled.
     Enter emission rate of zero for secondary pollutants that are
     modeled, but not emitted.  Units are specified by ILNTU
     (e.g. 1 for g/s).

---------------
Subgroup (15c)
---------------
                                                    a
          BUOYANT LINE SOURCE: VARIABLE EMISSIONS DATA
          --------------------------------------------
```

Use this subgroup to describe temporal variations in the emission rates given in 15b. Factors entered multiply the rates in 15b. Skip sources here that have constant emissions.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

| | | |
|---|---|---|
| 0 = | Constant | |
| 1 = | Diurnal cycle | (24 scaling factors: hours 1-24) |
| 2 = | Monthly cycle | (12 scaling factors: months 1-12) |
| 3 = | Hour & Season | (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB) |
| 4 = | Speed & Stab. | (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12 |
| 5 = | Temperature | (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+) |

---

[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

---

## INPUT GROUPS: 16a, 16b, 16c -- Volume source parameters

### Subgroup (16a)

Number of volume sources with parameters provided in 16b,c (NVL1) No default ! NVL1 = 0 !

Units used for volume source emissions below in 16b (IVLU) Default: 1 ! IVLU = 1 !

| | |
|---|---|
| 1 = | g/s |
| 2 = | kg/hr |
| 3 = | lb/hr |
| 4 = | tons/yr |
| 5 = | Odour Unit * m**3/s (vol. flux of odour compound) |
| 6 = | Odour Unit * m**3/min |
| 7 = | metric tons/yr |

Number of source-species combinations with variable emissions scaling factors provided below in (16c) (NSVL1) Default: 0 ! NSVL1 = 0 !

Number of volume sources with
variable location and emission
parameters (NVL2) No default ! NVL2 = 0 !

(If NVL2 > 0, ALL parameter data for
these sources are read from the VOLEMARB.DAT file(s) )

!END!

---
Subgroup (16b)
---

VOLUME SOURCE: CONSTANT DATA[a]

| X UTM Coordinate (km) | Y UTM Coordinate (km) | Effect. Height (m) | Base Elevation (m) | Initial Sigma y (m) | Initial Sigma z (m) | Emission Rates[b] |
|---|---|---|---|---|---|---|

---

[a] Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

[b] An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IVLU (e.g. 1 for g/s).

---
Subgroup (16c)
---

VOLUME SOURCE: VARIABLE EMISSIONS DATA[a]

Use this subgroup to describe temporal variations in the emission rates given in 16b. Factors entered multiply the rates in 16b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use VOLEMARB.DAT and NVL2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

| | | |
|---|---|---|
| 0 = | Constant | |
| 1 = | Diurnal cycle | (24 scaling factors: hours 1-24) |
| 2 = | Monthly cycle | (12 scaling factors: months 1-12) |
| 3 = | Hour & Season | (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB) |
| 4 = | Speed & Stab. | (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12 |
| 5 = | Temperature | (12 scaling factors, where temperature |

classes have upper bounds (C) of:
0, 5, 10, 15, 20, 25, 30, 35, 40,
45, 50, 50+)

---

[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

---

INPUT GROUPS: 17a & 17b -- Non-gridded (discrete) receptor information

Subgroup (17a)

Number of non-gridded receptors (NREC) No default ! NREC = 1834 !

!END!

Subgroup (17b)

NON-GRIDDED (DISCRETE) RECEPTOR DATA[a]

| Receptor No. | | X UTM Coordinate (km) | Y UTM Coordinate (km) | Ground Elevation (m) | Height Above Ground[b] (m) | |
|---|---|---|---|---|---|---|
| 1 | ! X = | 1090.063, | 32.672, | 1112.000, | 0.000! | !END! |
| 2 | ! X = | 1094.8, | 33.536, | 936.000, | 0.000! | !END! |
| 3 | ! X = | 1099.515, | 34.504, | 534.000, | 0.000! | !END! |
| 4 | ! X = | 1109.871, | 31.743, | 703.000, | 0.000! | !END! |
| 5 | ! X = | 1105.063, | 30.697, | 678.000, | 0.000! | !END! |
| 6 | ! X = | 1100.433, | 29.793, | 913.000, | 0.000! | !END! |
| 7 | ! X = | 1095.713, | 28.825, | 1616.000, | 0.000! | !END! |
| 8 | ! X = | 1090.972, | 27.959, | 1580.000, | 0.000! | !END! |
| 9 | ! X = | 1086.26, | 26.948, | 183.000, | 0.000! | !END! |
| 10 | ! X = | 1081.528, | 26.041, | 854.000, | 0.000! | !END! |
| 11 | ! X = | 1080.586, | 30.695, | 931.000, | 0.000! | !END! |
| 12 | ! X = | 1085.255, | 31.643, | 539.000, | 0.000! | !END! |
| 13 | ! X = | 1075.857, | 29.793, | 698.000, | 0.000! | !END! |
| 14 | ! X = | 1076.854, | 25.098, | 1436.000, | 0.000! | !END! |
| 15 | ! X = | 1077.811, | 20.343, | 1627.000, | 0.000! | !END! |
| 16 | ! X = | 1082.489, | 21.287, | 1555.000, | 0.000! | !END! |
| 17 | ! X = | 1087.265, | 22.255, | 910.000, | 0.000! | !END! |
| 18 | ! X = | 1091.891, | 23.197, | 372.000, | 0.000! | !END! |
| 19 | ! X = | 1096.636, | 24.063, | 678.000, | 0.000! | !END! |
| 20 | ! X = | 1101.419, | 24.993, | 1530.000, | 0.000! | !END! |
| 21 | ! X = | 1106.093, | 25.956, | 1739.000, | 0.000! | !END! |

| | | | | | | |
|---|---|---|---|---|---|---|
| 22 | ! X = | 1110.816, | 26.935, | 1295.000, | 0.000! | !END! |
| 23 | ! X = | 1078.718, | 15.579, | 1025.000, | 0.000! | !END! |
| 24 | ! X = | 1083.45, | 16.533, | 1388.000, | 0.000! | !END! |
| 25 | ! X = | 1088.18, | 17.492, | 1504.000, | 0.000! | !END! |
| 26 | ! X = | 1092.86, | 18.446, | 1097.000, | 0.000! | !END! |
| 27 | ! X = | 1097.608, | 19.312, | 960.000, | 0.000! | !END! |
| 28 | ! X = | 1102.337, | 20.283, | 1111.000, | 0.000! | !END! |
| 29 | ! X = | 1107.024, | 21.198, | 1493.000, | 0.000! | !END! |
| 30 | ! X = | 1111.751, | 22.176, | 953.000, | 0.000! | !END! |
| 31 | ! X = | 1116.536, | 23.118, | 1667.000, | 0.000! | !END! |
| 32 | ! X = | 1117.405, | 18.45, | 1288.000, | 0.000! | !END! |
| 33 | ! X = | 1112.775, | 17.487, | 1406.000, | 0.000! | !END! |
| 34 | ! X = | 1107.995, | 16.497, | 1203.000, | 0.000! | !END! |
| 35 | ! X = | 1103.314, | 15.532, | 1790.000, | 0.000! | !END! |
| 36 | ! X = | 1098.531, | 14.551, | 471.000, | 0.000! | !END! |
| 37 | ! X = | 1093.889, | 13.653, | 1387.000, | 0.000! | !END! |
| 38 | ! X = | 1089.086, | 12.78, | 1328.000, | 0.000! | !END! |
| 39 | ! X = | 1084.391, | 11.881, | 1463.000, | 0.000! | !END! |
| 40 | ! X = | 1079.615, | 10.865, | 1144.000, | 0.000! | !END! |
| 41 | ! X = | 1080.572, | 6.111, | 1665.000, | 0.000! | !END! |
| 42 | ! X = | 1085.262, | 7.057, | 1814.000, | 0.000! | !END! |
| 43 | ! X = | 1090.069, | 7.927, | 1384.000, | 0.000! | !END! |
| 44 | ! X = | 1094.748, | 8.932, | 954.000, | 0.000! | !END! |
| 45 | ! X = | 1099.534, | 9.909, | 1151.000, | 0.000! | !END! |
| 46 | ! X = | 1104.231, | 10.822, | 1475.000, | 0.000! | !END! |
| 47 | ! X = | 1108.916, | 11.789, | 1622.000, | 0.000! | !END! |
| 48 | ! X = | 1113.65, | 12.768, | 1405.000, | 0.000! | !END! |
| 49 | ! X = | 1119.343, | 8.895, | 1478.000, | 0.000! | !END! |
| 50 | ! X = | 1114.645, | 7.97, | 1336.000, | 0.000! | !END! |
| 51 | ! X = | 1109.947, | 7.049, | 1138.000, | 0.000! | !END! |
| 52 | ! X = | 1105.217, | 6.022, | 1065.000, | 0.000! | !END! |
| 53 | ! X = | 1100.517, | 5.109, | 671.000, | 0.000! | !END! |
| 54 | ! X = | 1095.727, | 4.129, | 1308.000, | 0.000! | !END! |
| 55 | ! X = | 1090.984, | 3.165, | 1723.000, | 0.000! | !END! |
| 56 | ! X = | 1086.313, | 2.373, | 1220.000, | 0.000! | !END! |
| 57 | ! X = | 1081.579, | 1.366, | 1394.000, | 0.000! | !END! |
| 58 | ! X = | 1082.486, | -3.398, | 418.000, | 0.000! | !END! |
| 59 | ! X = | 1087.225, | -2.39, | 787.000, | 0.000! | !END! |
| 60 | ! X = | 1091.94, | -1.538, | 1055.000, | 0.000! | !END! |
| 61 | ! X = | 1096.726, | -.512, | 1145.000, | 0.000! | !END! |
| 62 | ! X = | 1101.491, | .358, | 1412.000, | 0.000! | !END! |
| 63 | ! X = | 1106.125, | 1.362, | 1813.000, | 0.000! | !END! |
| 64 | ! X = | 1110.837, | 2.229, | 2002.000, | 0.000! | !END! |
| 65 | ! X = | 1115.59, | 3.161, | 857.000, | 0.000! | !END! |
| 66 | ! X = | 1120.321, | 4.198, | 1509.000, | 0.000! | !END! |
| 67 | ! X = | 1121.26, | -.56, | 606.000, | 0.000! | !END! |
| 68 | ! X = | 1116.555, | -1.486, | 850.000, | 0.000! | !END! |
| 69 | ! X = | 1111.868, | -2.509, | 1762.000, | 0.000! | !END! |
| 70 | ! X = | 1107.112, | -3.437, | 1020.000, | 0.000! | !END! |
| 71 | ! X = | 1102.354, | -4.362, | 1347.000, | 0.000! | !END! |

```
1793 ! X = 1190.713166, 143.877609,    1758.000,        0.000!   !END!
1794 ! X = 1197.802226,145.3373526,    1377.000,        0.000!   !END!
1795 ! X = 1200.175233, 145.833703,    1602.000,        0.000!   !END!
1796 ! X = 1202.535096,146.3106541,    1262.000,        0.000!   !END!
1797 ! X = 1204.901398,146.7548399,     930.000,        0.000!   !END!
1798 ! X = 1197.499796,146.8990394,    1635.000,        0.000!   !END!
1799 ! X = 1199.871443,147.3951102,    1747.000,        0.000!   !END!
1800 ! X = 1202.206752,147.9019526,     900.000,        0.000!   !END!
1801 ! X = 1203.016654,143.9307254,    1186.000,        0.000!   !END!
1802 ! X = 1198.279035,142.9729264,    1346.000,        0.000!   !END!
1803 ! X = 1193.533184,142.0538674,    1385.000,        0.000!   !END!
1804 ! X = 1205.826888,142.0209325,    1057.000,        0.000!   !END!
1805 ! X = 1203.499091,141.5499432,    1565.000,        0.000!   !END!
1806 ! X = 1201.116954, 141.085794,    1177.000,        0.000!   !END!
1807 ! X = 1198.738969,140.6060044,    1761.000,        0.000!   !END!
1808 ! X = 1196.389917, 140.150023,    1803.000,        0.000!   !END!
1809 ! X = 1194.007938,139.6890798,    1948.000,        0.000!   !END!
1810 ! X = 1203.940732,139.1966627,     793.000,        0.000!   !END!
1811 ! X =  1199.22867,138.2620777,    1061.000,        0.000!   !END!
1812 ! X = 1194.485357,137.3084228,    2275.000,        0.000!   !END!
1813 ! X = 1191.648936,139.1989452,    1735.000,        0.000!   !END!
1814 ! X = 1189.286816, 138.726784,    1199.000,        0.000!   !END!
1815 ! X = 1188.043238,138.4952901,     900.000,        0.000!   !END!
1816 ! X = 1188.572265,136.1081354,    1305.000,        0.000!   !END!
1817 ! X = 1189.090705,133.7704475,    1861.000,        0.000!   !END!
1818 ! X = 1190.234877,133.9806218,    1754.000,        0.000!   !END!
1819 ! X = 1192.596089,134.4701549,    2850.000,        0.000!   !END!
1820 ! X = 1194.959805,134.9447781,    2860.000,        0.000!   !END!
1821 ! X = 1197.324252, 135.419507,    1826.000,        0.000!   !END!
1822 ! X = 1199.691456,135.8782804,    1075.000,        0.000!   !END!
1823 ! X = 1201.453714,136.2246007,    1025.000,        0.000!   !END!
1824 ! X = 1189.562622,131.4063472,    1427.000,        0.000!   !END!
1825 ! X = 1195.425053,132.5429114,    2083.000,        0.000!   !END!
1826 ! X = 1200.175146,133.4814599,     978.000,        0.000!   !END!
1827 ! X = 1188.809239,128.7963213,     759.000,        0.000!   !END!
1828 ! X = 1191.176255,129.2684289,    1084.000,        0.000!   !END!
1829 ! X = 1193.545782,  129.72563,    1527.000,        0.000!   !END!
1830 ! X = 1195.895793,130.1961722,    1477.000,        0.000!   !END!
1831 ! X = 1198.265194,130.6543364,     948.000,        0.000!   !END!
1832 ! X = 1200.631477, 131.130475,    1042.000,        0.000!   !END!
1833 ! X = 1189.287759,126.3985654,    1068.000,        0.000!   !END!
1834 ! X = 1196.373045,127.8156956,    1019.000,        0.000!   !END!
```

---

a
Data for each receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

b
Receptor height above ground is optional. If no value is entered, the receptor is placed on the ground.

```
Run Title:
   BP Cherry Point Cogeneration
   Ferndale, WA
   Case 6, Class I receptors

-------------------------------------------------------------------------------

INPUT GROUP: 1 -- General run control parameters
--------------

     Option to run all periods found
     in the met. file(s)  (METRUN)        Default: 0   ! METRUN =   1  !

         METRUN = 0 - Run period explicitly defined below
         METRUN = 1 - Run all periods in CALPUFF data file(s)

     Starting date:    Year  (ISYR) --    No default   ! ISYR  =  1999   !
     (used only if     Month (ISMO) --    No default   ! ISMO  =  0    !
      METRUN = 0)      Day   (ISDY) --    No default   ! ISDY  =  0    !
                       Hour  (ISHR) --    No default   ! ISHR  =  0    !

     Number of hours to process (NHRS) -- No default   ! NHRS  =  0  !

     Process every hour of data?(NREP) -- Default: 1   ! NREP  =  1  !
      (1 = every hour processed,
       2 = every 2nd hour processed,
       5 = every 5th hour processed, etc.)

Species & Concentration/Deposition Information
----------------------------------------------

      Species to process (ASPEC)        -- No default   ! ASPEC = VISIB  !
      (ASPEC = VISIB for visibility processing)

      Layer/deposition code (ILAYER)    -- Default: 1   ! ILAYER =  1  !
        '1'  for CALPUFF concentrations,
        '-1' for dry deposition fluxes,
        '-2' for wet deposition fluxes,
        '-3' for wet+dry deposition fluxes.

      Scaling factors of the form:      -- Defaults:    ! A =  0.0    !
          X(new) = X(old) * A + B          A = 0.0      ! B =  0.0    !
        (NOT applied if A = B = 0.0)       B = 0.0

      Add Hourly Background Concentrations/Fluxes?
                                 (LBACK)  -- Default: F   ! LBACK =  F !

Receptor information
--------------------

  Gridded receptors processed?     (LG) -- Default: F   ! LG  = F  !
  Discrete receptors processed?    (LD) -- Default: F   ! LD  = T  !
  CTSG Complex terrain receptors processed?
                                  (LCT) -- Default: F   ! LCT = F  !

--Report results by DISCRETE receptor RING?
  (only used when LD = T)      (LDRING) -- Default: F   ! LDRING = F  !

--Select range of DISCRETE receptors (only used when LD = T):

  Select ALL DISCRETE receptors by setting NDRECP flag to -1;
                                 OR
  Select SPECIFIC DISCRETE receptors by entering a flag (0,1) for each
     0 = discrete receptor not processed
     1 = discrete receptor processed
  using repeated value notation to select blocks of receptors:
     23*1, 15*0, 12*1
  Flag for all receptors after the last one assigned is set to 0
  (NDRECP) -- Default: -1
 ! NDRECP = 665*1  !


--Select range of GRIDDED receptors (only used when LG = T):

       X index of LL corner (IBGRID) -- Default: -1      ! IBGRID = -1  !
           (-1 OR 1 <= IBGRID <= NX)

       Y index of LL corner (JBGRID) -- Default: -1      ! JBGRID = -1  !
           (-1 OR 1 <= JBGRID <= NY)

       X index of UR corner (IEGRID) -- Default: -1      ! IEGRID = -1  !
           (-1 OR 1 <= IEGRID <= NX)

       Y index of UR corner (JEGRID) -- Default: -1      ! JEGRID = -1  !
           (-1 OR 1 <= JEGRID <= NY)

  Note: Entire grid is processed if IBGRID=JBGRID=IEGRID=JEGRID=-1


--Specific gridded receptors can also be excluded from CALPOST
  processing by filling a processing grid array with 0s and 1s.  If the
  processing flag for receptor index (i,j) is 1 (ON), that receptor
  will be processed if it lies within the range delineated by IBGRID,
  JBGRID,IEGRID,JEGRID and if LG=T. If it is 0 (OFF), it will not be
  processed in the run.  By default, all array values are set to 1 (ON).

  Number of gridded receptor rows provided in Subgroup (1a) to
  identify specific gridded receptors to process
```

```
                        (NGONOFF) -- Default: 0       ! NGONOFF =  0  !

!END!

--------------
Subgroup (1a) -- Specific gridded receptors included/excluded
--------------

    Specific gridded receptors are excluded from CALPOST processing
    by filling a processing grid array with 0s and 1s.  A total of
    NGONOFF lines are read here.  Each line corresponds to one 'row'
    in the sampling grid, starting with the NORTHERNMOST row that
    contains receptors that you wish to exclude, and finishing with
    row 1 to the SOUTH (no intervening rows may be skipped).  Within
    a row, each receptor position is assigned either a 0 or 1,
    starting with the westernmost receptor.
       0 = gridded receptor not processed
       1 = gridded receptor processed

    Repeated value notation may be used to select blocks of receptors:
       23*1, 15*0, 12*1

    Because all values are initially set to 1, any receptors north of
    the first row entered, or east of the last value provided in a row,
    remain ON.

    (NGXRECP) -- Default: 1


--------------------------------------------------------------------------------

INPUT GROUP: 2 -- Visibility Parameters (ASPEC = VISIB)
--------------

    Maximum relative humidity (%) used in particle growth curve
                              (RHMAX) -- Default: 98   ! RHMAX  = 98.0 !

    Modeled species to be included in computing the light extinction
     Include SULFATE?          (LVSO4) -- Default: T   ! LVSO4  = T  !
     Include NITRATE?          (LVNO3) -- Default: T   ! LVNO3  = T  !
     Include ORGANIC CARBON?   (LVOC)  -- Default: T   ! LVOC   = F  !
     Include COARSE PARTICLES? (LVPMC) -- Default: T   ! LVPMC  = F  !
     Include FINE PARTICLES?   (LVPMF) -- Default: T   ! LVPMF  = T  !
     Include ELEMENTAL CARBON? (LVEC)  -- Default: T   ! LVEC   = F  !

    And, when ranking for TOP-N, TOP-50, and Exceedance tables,
     Include BACKGROUND?       (LVBK)  -- Default: T   ! LVBK   = T  !

    Species name used for particulates in MODEL.DAT file
                   COARSE    (SPECPMC) -- Default: PMC ! SPECPMC = EC !
                   FINE      (SPECPMF) -- Default: PMF ! SPECPMF = PM10 !

Extinction Efficiency (1/Mm per ug/m**3)
----------------------------------------
    MODELED particulate species:
              PM  COARSE      (EEPMC) -- Default: 0.6 ! EEPMC  = 0.6 !
              PM  FINE        (EEPMF) -- Default: 1.0 ! EEPMF  = 3.8 !
    BACKGROUND particulate species:
              PM  COARSE    (EEPMCBK) -- Default: 0.6 ! EEPMCBK = 0.6 !
    Other species:
             AMMONIUM SULFATE (EESO4) -- Default: 3.0 ! EESO4  = 3.0 !
             AMMONIUM NITRATE (EENO3) -- Default: 3.0 ! EENO3  = 3.0 !
             ORGANIC CARBON   (EEOC)  -- Default: 4.0 ! EEOC   = 4.0 !
             SOIL             (EESOIL)-- Default: 1.0 ! EESOIL = 1.0 !
             ELEMENTAL CARBON (EEEC)  -- Default: 10. ! EEEC   = 10.0 !

Background Extinction Computation
---------------------------------

    Method used for background light extinction
                              (MVISBK) -- Default: 6   ! MVISBK =  2  !

         1 =  Supply single light extinction and hygroscopic fraction
              - IWAQM (1993) RH adjustment applied to hygroscopic background
                and modeled sulfate and nitrate
         2 =  Compute extinction from speciated PM measurements (A)
              - Hourly RH adjustment applied to observed and modeled sulfate
                and nitrate
              - RH factor is capped at RHMAX
         3 =  Compute extinction from speciated PM measurements (B)
              - Hourly RH adjustment applied to observed and modeled sulfate
                and nitrate
              - Receptor-hour excluded if RH>RHMAX
              - Receptor-day excluded if fewer than 6 valid receptor-hours
         4 =  Read hourly transmissometer background extinction measurements
              - Hourly RH adjustment applied to modeled sulfate and nitrate
              - Hour excluded if measurement invalid (missing, interference,
                or large RH)
              - Receptor-hour excluded if RH>RHMAX
              - Receptor-day excluded if fewer than 6 valid receptor-hours
         5 =  Read hourly nephelometer background extinction measurements
              - Rayleigh extinction value (BEXTRAY) added to measurement
              - Hourly RH adjustment applied to modeled sulfate and nitrate
              - Hour excluded if measurement invalid (missing, interference,
                or large RH)
              - Receptor-hour excluded if RH>RHMAX
              - Receptor-day excluded if fewer than 6 valid receptor-hours
         6 =  Compute extinction from speciated PM measurements
              - FLAG RH adjustment factor applied to observed and
                modeled sulfate and nitrate

     Additional inputs used for MVISBK = 1:
     --------------------------------------
      Background light extinction (1/Mm)
```

```
                          (BEXTBK) -- No default   ! BEXTBK = 12.0 !
  Percentage of particles affected by relative humidity
                          (RHFRAC) -- No default   ! RHFRAC = 0.0 !

 Additional inputs used for MVISBK = 6:
 --------------------------------------
  Extinction coefficients for hygroscopic species (modeled and
  background) are computed using a monthly RH adjustment factor
  in place of an hourly RH factor (VISB.DAT file is NOT needed).
  Enter the 12 monthly factors here (RHFAC).  Month 1 is January.

  (RHFAC)  -- No default     ! RHFAC = 4.4, 4.4, 4.1, 4.1,
                                       4.1, 3.4, 3.4, 3.4,
                                       5.8, 5.8, 5.8, 4.4 !

 Additional inputs used for MVISBK = 2,3,6:
 ------------------------------------------
  Background extinction coefficients are computed from monthly
  CONCENTRATIONS of ammonium sulfate (BKSO4), ammonium nitrate (BKNO3),
  coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and
  elemental carbon (BKEC).  Month 1 is January.
  (ug/m**3)

  (BKSO4)  -- No default     ! BKSO4 = 0.2, 0.2, 0.2, 0.2,
                                       0.2, 0.2, 0.2, 0.2,
                                       0.2, 0.2, 0.2, 0.2 !
  (BKNO3)  -- No default     ! BKNO3 = 0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0 !
  (BKPMC)  -- No default     ! BKPMC = 0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0 !
  (BKOC)   -- No default     ! BKOC  = 0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0 !
  (BKSOIL) -- No default     ! BKSOIL= 4.5, 4.5, 4.5, 4.5,
                                       4.5, 4.5, 4.5, 4.5,
                                       4.5, 4.5, 4.5, 4.5 !
  (BKEC)   -- No default     ! BKEC  = 0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0,
                                       0.0, 0.0, 0.0, 0.0 !

 Additional inputs used for MVISBK = 2,3,5,6:
 --------------------------------------------
  Extinction due to Rayleigh scattering is added (1/Mm)
                          (BEXTRAY) -- Default: 10.0 ! BEXTRAY = 10.0 !

!END!
-------------------------------------------------------------------------------

INPUT GROUP: 3 -- Output options
--------------

Output Units
------------
  Units for All Output        (IPRTU) -- Default: 1   ! IPRTU =  1   !
                   for            for
             Concentration    Deposition
     1 =        g/m**3          g/m**2/s
     2 =       mg/m**3         mg/m**2/s
     3 =       ug/m**3         ug/m**2/s
     4 =       ng/m**3         ng/m**2/s
     5 =      Odour Units

  Visibility: extinction expressed in 1/Mega-meters (IPRTU is ignored)


Averaging time(s) reported
--------------------------

  1-hr averages            (L1HR) -- Default: T   !   L1HR = F  !

  3-hr averages            (L3HR) -- Default: T   !   L3HR = F  !

  24-hr averages          (L24HR) -- Default: T   !  L24HR = T  !

  Run-length averages     (LRUNL) -- Default: T   !  LRUNL = F  !

  User-specified averaging time in hours - results for
  an averaging time of NAVG hours are reported for
  NAVG greater than 0:
                           (NAVG) -- Default: 0   !   NAVG =  0  !


Types of tabulations reported
-----------------------------

  1) Visibility: daily visibility tabulations are always reported
                 for the selected receptors when ASPEC = VISIB.
                 In addition, any of the other tabulations listed
                 below may be chosen to characterize the light
                 extinction coefficients.
                 [List file or Plot/Analysis File]


  2) Top 50 table for each averaging time selected
     [List file only]
                           (LT50) -- Default: T   !   LT50 = T  !

  3) Top 'N' table for each averaging time selected
     [List file or Plot file]
                          (LTOPN) -- Default: F   !  LTOPN = T  !

       -- Number of 'Top-N' values at each receptor
          selected (NTOP must be <= 4)
```

```
                        (NTOP) -- Default: 4    ! NTOP =  3    !

      -- Specific ranks of 'Top-N' values reported
         (NTOP values must be entered)
                 (ITOP(4) array) -- Default:      ! ITOP =  1 , 2 , 3    !
                                    1,2,3,4


   4) Threshold exceedance counts for each receptor and each averaging
      time selected
      [List file or Plot file]
                        (LEXCD) -- Default: F    !  LEXCD = T  !

        -- Identify the threshold for each averaging time by assigning a
           non-negative value (output units).

                                  -- Default: -1.0
           Threshold for  1-hr averages   (THRESH1) !  THRESH1 = -1.0  !
           Threshold for  3-hr averages   (THRESH3) !  THRESH3 = -1.0  !
           Threshold for 24-hr averages  (THRESH24) ! THRESH24 = 1.0E00 !
           Threshold for NAVG-hr averages (THRESHN) !  THRESHN = -1.0  !


        -- Counts for the shortest averaging period selected can be
           tallied daily, and receptors that experience more than NCOUNT
           counts over any NDAY period will be reported.  This type of
           exceedance violation output is triggered only if NDAY > 0.

           Accumulation period(Days)
                          (NDAY) -- Default: 0    !    NDAY =  0  !
           Number of exceedances allowed
                       (NCOUNT) -- Default: 1    !  NCOUNT =  1  !


   5) Selected day table(s)

      Echo Option -- Many records are written each averaging period
      selected and output is grouped by day
      [List file or Plot file]
                        (LECHO) -- Default: F    !  LECHO = F  !

      Timeseries Option -- Averages at all selected receptors for
      each selected averaging period are written to timeseries files.
      Each file contains one averaging period, and all receptors are
      written to a single record each averaging time.
      [TSttUUUU.DAT files]
                        (LTIME) -- Default: F    !  LTIME = F  !

        -- Days selected for output
                     (IECHO(366)) -- Default: 366*0
           ! IECHO  = 366*1  !
           (366 values must be entered)

Plot output options
-------------------

     Plot files can be created for the Top-N, Exceedance, and Echo
     tables selected above.  Two formats for these files are available,
     DATA and GRID.  In the DATA format, results at all receptors are
     listed along with the receptor location [x,y,val1,val2,...].
     In the GRID format, results at only gridded receptors are written,
     using a compact representation.  The gridded values are written in
     rows (x varies), starting with the most southern row of the grid.
     The GRID format is given the .GRD extension, and includes headers
     compatible with the SURFER(R) plotting software.

     A plotting and analysis file can also be created for the daily
     peak visibility summary output, in DATA format only.

     Generate Plot file output in addition to writing tables
     to List file?
                              (LPLT) -- Default: F    ! LPLT  = F !

     Use GRID format rather than DATA format,
     when available?
                              (LGRD) -- Default: F    ! LGRD  = F !


Additional Debug Output
-----------------------

   Output selected information to List file
    for debugging?
                            (LDEBUG) -- Default: F  ! LDEBUG  = F !

 !END!

-----------------------------------------------------
NOTICE: Starting year in control file sets the
        expected century for the simulation.  All
        YY years are converted to YYYY years in
        the range:          1949        2048
-----------------------------------------------------

*****************************************************************************************************************
                                                CALPOST  Version 5.2            Level 991104b
*****************************************************************************************************************


  CALPOST Control File Input Summary -------------------------

     Replace run data with data in Puff file 1=Y:     1
```

```
                    Run starting date -- year: 1999
                                        month:    0
                                          day:    0
                                   Julian day:    0
       Time at beginning of run  -  hour(0-23):   0
                                 -     second:    0
                          Run length (hours):     0


Every hour of data processed -- NREP = 1


 Species & Concentration/Deposition Information
                                      Species: VISIB
                      Layer of processed data:    1
    (>0=conc, -1=dry flux, -2=wet flux, -3=wet & dry flux)
                  Multiplicative scaling factor: 0.0000E+00
                        Additive scaling factor: 0.0000E+00
                 Hourly background values used?: F


 Receptor information
                    Gridded receptors processed?: F
                   Discrete receptors processed?: T
     CTSG Complex terrain receptors processed?: F

 Discrete Receptors Processed

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1


 Visibility Processing Selected

 Extinction Computation includes:
                               SULFATES
                               NITRATES
                               FINE PARTICLES
                               BACKGROUND
              Max. RH % for particle growth (%):  98.000

 Species name for modeled particulates
                                          fine: PM10

 Extinction Efficiency (1/Mm per ug/m**3)
                                ammonium sulfate:     3.00
                                ammonium nitrate:     3.00
                                  organic carbon:     4.00
                                            soil:     1.00
                                elemental carbon:    10.00
                              MODELED coarse PM:      0.60
                              MODELED   fine PM:      3.80
                              BACKGRND coarse PM:     0.60

 Background Extinction Calculation Method 2
          Rayleigh scattering extinction (1/Mm):     10.00
            Monthly background conc. (ug/m**3):
```

| | (NH4)2SO4 | (NH4)NO3 | PM-C | OC | SOIL | EC |
|---|---|---|---|---|---|---|
| 1 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 2 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 3 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 4 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 5 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 6 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 7 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 8 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 9 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 10 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 11 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |
| 12 | .2000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .4500E+01 | .0000E+00 |

```
 Output options
                        Units requested for output:    (1/Mega-m)

 Averaging time(s) selected
     User-specified averaging time (NAVG hours):     0
                                  1-hr averages:     F
                                  3-hr averages:     F
                                 24-hr averages:     T
                                NAVG-hr averages:    F
                           Length of run averages:   F

 Output components selected
                                         Top-50:     T
                Top-N values at each receptor:       T
            Exceedance counts at each receptor:      T
       Output selected information for debugging:    F
```

```
                    Echo tables for selected days:      F
                    Time-series for selected days:      F

 Top "n" table control
        Number of "top" values at each receptor:      3
        Specific ranks of "top" values reported:   1   2   3


 Plot file option
                              Plot files created:      F


 Threshold Exceedance control
      Exceedances of a specified value will be counted for --
                        24-hr averages exceeding: 1.0000E+00


IDENTIFICATION OF PROCESSED MODEL FILE ----------

CALPUFF     5.5          010730_1

BP Cherry Point Cogeneration
Ferndale, WA
Case 6, Class I receptors

Averaging time for values reported from model:
                1   HOUR

Number of averaging periods in file from model:
             7992

Chemical species names for each layer in model:
SO2          1
SO4          1
NOX          1
HNO3         1
NO3          1
PM10         1


-----------------------------------------------------------------------------------------------------------------------
         INPUT FILES

 Default Name      Unit No.      File Name and Path
 ------------      --------      ------------------
  CALPOST.INP         5          D:\CALPUFF\6VISBPT.INP
    MODEL.DAT         4          D:\CALPUFF\6CONC.DAT
     VISB.DAT         9          D:\CALPUFF\6VISB.DAT

-----------------------------------------------------------------------------------------------------------------------
         OUTPUT FILES

 Default Name      Unit No.      File Name and Path
 ------------      --------      ------------------
  CALPOST.LST         8          D:\CALPUFF\6VISBOLY.LST
***********************************************************************************************************************
                                                CALPOST  Version 5.2          Level 991104b
***********************************************************************************************************************


                              VISIB    B _SN_F

             TOP-50    24    HOUR AVERAGE    EXTINCTION    VALUES

                                  BEXT    BEXT
YEAR DAY TIME RECEPTOR TYPE B__SN__   BACKGND %CHNG  DELTA DV  RH-FAC   COORDINATES (km)

1998 300 2300 (  0, 109) D   25.335  25.335   0.000      0.000  18.059  1057.055   -23.392
1998 300 2300 (  0, 108) D   25.335  25.335   0.000      0.000  18.059  1061.265   -19.755
1998 300 2300 (  0, 107) D   25.335  25.335   0.000      0.000  18.059  1065.531   -16.726
1998 300 2300 (  0, 106) D   25.335  25.335   0.000      0.000  18.059  1070.271   -15.682
1998 300 2300 (  0, 105) D   25.335  25.335   0.000      0.000  18.059  1074.988   -14.794
1998 300 2300 (  0, 104) D   25.335  25.335   0.000      0.000  18.059  1079.644   -13.861
1998 300 2300 (  0, 126) D   25.335  25.335   0.000      0.000  18.059  1060.733     6.991
1998 300 2300 (  0, 125) D   25.335  25.335   0.000      0.000  18.059  1065.523     7.940
1998 300 2300 (  0, 122) D   25.335  25.335   0.000      0.000  18.059  1066.518     3.193
1998 300 2300 (  0, 117) D   25.335  25.335   0.000      0.000  18.059  1067.395    -1.473
1998 300 2300 (  0, 111) D   25.335  25.335   0.000      0.000  18.059  1048.176   -28.247
1998 300 2300 (  0, 110) D   25.335  25.335   0.000      0.000  18.059  1052.913   -27.427
1998 300 2300 (  0, 135) D   25.335  25.335   0.000      0.000  18.059  1050.370     9.891
1998 300 2300 (  0, 134) D   25.335  25.335   0.000      0.000  18.059  1055.057    10.814
1998 300 2300 (  0, 133) D   25.335  25.335   0.000      0.000  18.059  1059.883    11.818
1998 300 2300 (  0, 129) D   25.335  25.335   0.000      0.000  18.059  1046.522     4.145
1998 300 2300 (  0, 128) D   25.335  25.335   0.000      0.000  18.059  1051.363     5.092
1998 300 2300 (  0, 127) D   25.335  25.335   0.000      0.000  18.059  1056.025     6.165
1998 300 2300 (  0, 154) D   25.335  25.335   0.000      0.000  18.059  1005.906    35.542
1998 300 2300 (  0, 153) D   25.335  25.335   0.000      0.000  18.059  1005.024    40.209
1998 300 2300 (  0, 143) D   25.335  25.335   0.000      0.000  18.059  1044.623    13.606
1998 300 2300 (  0, 142) D   25.335  25.335   0.000      0.000  18.059  1049.515    13.678
1998 300 2300 (  0, 141) D   25.335  25.335   0.000      0.000  18.059  1054.244    15.180
1998 300 2300 (  0, 136) D   25.335  25.335   0.000      0.000  18.059  1045.633     8.965
1998 300 2300 (  0, 160) D   25.335  25.335   0.000      0.000  18.059  1010.918    11.750
1998 300 2300 (  0, 159) D   25.335  25.335   0.000      0.000  18.059  1009.650    16.554
1998 300 2300 (  0, 158) D   25.335  25.335   0.000      0.000  18.059  1008.817    21.229
1998 300 2300 (  0, 157) D   25.335  25.335   0.000      0.000  18.059  1007.766    25.968
1998 300 2300 (  0, 156) D   25.335  25.335   0.000      0.000  18.059  1003.996    30.119
1998 300 2300 (  0, 155) D   25.335  25.335   0.000      0.000  18.059  1006.865    30.734
1998 300 2300 (  0, 166) D   25.335  25.335   0.000      0.000  18.059  1035.295   -12.856
1998 300 2300 (  0, 165) D   25.335  25.335   0.000      0.000  18.059  1030.837    -8.840
```

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1998 | 300 | 2300 | ( 0, 164) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1028.629 | -4.364 |
| 1998 | 300 | 2300 | ( 0, 163) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1022.989 | -0.609 |
| 1998 | 300 | 2300 | ( 0, 162) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1017.337 | 3.251 |
| 1998 | 300 | 2300 | ( 0, 161) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1013.810 | 7.392 |
| 1998 | 300 | 2300 | ( 0, 172) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1005.951 | 33.080 |
| 1998 | 300 | 2300 | ( 0, 171) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1005.417 | 37.809 |
| 1998 | 300 | 2300 | ( 0, 170) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1004.814 | 42.629 |
| 1998 | 300 | 2300 | ( 0, 169) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1040.393 | -26.609 |
| 1998 | 300 | 2300 | ( 0, 168) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1038.569 | -22.014 |
| 1998 | 300 | 2300 | ( 0, 167) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1036.212 | -17.618 |
| 1998 | 300 | 2300 | ( 0, 180) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1014.386 | 5.128 |
| 1998 | 300 | 2300 | ( 0, 179) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1011.702 | 9.472 |
| 1998 | 300 | 2300 | ( 0, 178) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1010.143 | 14.172 |
| 1998 | 300 | 2300 | ( 0, 177) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1009.142 | 18.920 |
| 1998 | 300 | 2300 | ( 0, 176) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1008.309 | 23.595 |
| 1998 | 300 | 2300 | ( 0, 175) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1007.318 | 28.293 |
| 1998 | 300 | 2300 | ( 0, 174) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1004.968 | 27.927 |
| 1998 | 300 | 2300 | ( 0, 173) | D | 25.335 | 25.335 | 0.000 | 0.000 | 18.059 | 1004.020 | 32.684 |

**********

CALPOST Version 5.2 Level 991104b

**********

VISIB B _SN_F

3 RANKED 24 HOUR AVERAGE EXTINCTION VALUES AT EACH DISCRETE RECEPTOR (YEAR,DAY,ENDING TIME) (1/Mega-m)

| RECEPTOR | COORDINATES (km) | | 1 RANK | | 2 RANK | | 3 RANK | |
|---|---|---|---|---|---|---|---|---|
| 1 | 1090.063 | 32.672 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 2 | 1094.800 | 33.536 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 3 | 1099.515 | 34.504 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 4 | 1109.871 | 31.743 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 5 | 1105.063 | 30.697 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 6 | 1100.433 | 29.793 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 7 | 1095.713 | 28.825 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 8 | 1090.972 | 27.959 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 9 | 1086.260 | 26.948 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 10 | 1081.528 | 26.041 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 11 | 1080.586 | 30.695 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 12 | 1085.255 | 31.643 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 13 | 1075.857 | 29.793 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 14 | 1076.854 | 25.098 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 15 | 1077.811 | 20.343 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 16 | 1082.489 | 21.287 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 17 | 1087.265 | 22.255 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 18 | 1091.891 | 23.197 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 19 | 1096.636 | 24.063 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 20 | 1101.419 | 24.993 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 21 | 1106.093 | 25.956 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 22 | 1110.816 | 26.935 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 23 | 1078.718 | 15.579 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 24 | 1083.450 | 16.533 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 25 | 1088.180 | 17.492 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 26 | 1092.860 | 18.446 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 27 | 1097.608 | 19.312 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 28 | 1102.337 | 20.283 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 29 | 1107.024 | 21.198 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 30 | 1111.751 | 22.176 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 31 | 1116.536 | 23.118 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 32 | 1117.405 | 18.450 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 33 | 1112.775 | 17.487 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 34 | 1107.995 | 16.497 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 35 | 1103.314 | 15.532 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 36 | 1098.531 | 14.551 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 37 | 1093.889 | 13.653 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 38 | 1089.086 | 12.780 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 39 | 1084.391 | 11.881 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 40 | 1079.615 | 10.865 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 41 | 1080.572 | 6.111 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 42 | 1085.262 | 7.057 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 43 | 1090.069 | 7.927 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 44 | 1094.748 | 8.932 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 45 | 1099.534 | 9.909 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 46 | 1104.231 | 10.822 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 47 | 1108.916 | 11.789 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 48 | 1113.650 | 12.768 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 49 | 1119.343 | 8.895 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 50 | 1114.645 | 7.970 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 51 | 1109.947 | 7.049 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 52 | 1105.217 | 6.022 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 53 | 1100.517 | 5.109 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 54 | 1095.727 | 4.129 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 55 | 1090.984 | 3.165 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 56 | 1086.313 | 2.373 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 57 | 1081.579 | 1.366 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 58 | 1082.486 | -3.398 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 59 | 1087.225 | -2.390 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 60 | 1091.940 | -1.538 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 61 | 1096.726 | -0.512 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 62 | 1101.491 | 0.358 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 63 | 1106.125 | 1.362 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 64 | 1110.837 | 2.229 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 65 | 1115.590 | 3.161 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 66 | 1120.321 | 4.198 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 67 | 1121.260 | -0.560 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 68 | 1116.555 | -1.486 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 69 | 1111.868 | -2.509 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 70 | 1107.112 | -3.437 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 71 | 1102.354 | -4.362 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 72 | 1097.645 | -5.273 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 73 | 1092.946 | -6.230 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 74 | 1088.245 | -7.183 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 75 | 1083.384 | -8.111 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 76 | 1084.391 | -12.855 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 77 | 1089.147 | -11.896 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 78 | 1093.861 | -10.992 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 79 | 1098.514 | -10.044 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 80 | 1103.327 | -9.112 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 81 | 1107.969 | -8.107 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 82 | 1112.779 | -7.168 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 83 | 1117.430 | -6.205 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 84 | 1122.239 | -5.258 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 85 | 1113.710 | -11.926 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 86 | 1109.015 | -12.947 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 87 | 1104.290 | -13.814 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 88 | 1099.583 | -14.776 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 89 | 1094.756 | -15.654 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 90 | 1090.108 | -16.649 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 91 | 1085.349 | -17.609 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 92 | 1114.631 | -16.635 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 93 | 1109.983 | -17.647 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 94 | 1105.163 | -18.583 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 95 | 1100.534 | -19.426 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 96 | 1095.731 | -20.455 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 97 | 1091.050 | -21.301 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 98 | 1096.696 | -25.207 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 99 | 1086.296 | -22.313 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 100 | 1126.005 | 0.430 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 101 | 1124.139 | 9.843 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 102 | 1081.592 | -23.311 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 103 | 1077.877 | -28.999 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 104 | 1079.644 | -13.861 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 105 | 1074.988 | -14.794 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 106 | 1070.271 | -15.682 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 107 | 1065.531 | -16.726 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 108 | 1061.265 | -19.755 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 109 | 1057.055 | -23.392 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 110 | 1052.913 | -27.427 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 111 | 1048.176 | -28.247 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 112 | 1069.234 | -10.994 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 113 | 1074.089 | -10.029 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 114 | 1078.773 | -8.987 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 115 | 1073.039 | -5.292 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 116 | 1077.798 | -4.392 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 117 | 1067.395 | -1.473 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 118 | 1072.131 | -0.478 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 119 | 1076.835 | 0.412 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 120 | 1075.832 | 5.158 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 121 | 1071.201 | 4.178 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 122 | 1066.518 | 3.193 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 123 | 1074.889 | 9.863 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 124 | 1070.202 | 8.925 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 125 | 1065.523 | 7.940 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 126 | 1060.733 | 6.991 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 127 | 1056.025 | 6.165 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 128 | 1051.363 | 5.092 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 129 | 1046.522 | 4.145 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 130 | 1073.986 | 14.627 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 131 | 1069.252 | 13.681 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 132 | 1064.538 | 12.637 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 133 | 1059.883 | 11.818 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 134 | 1055.057 | 10.814 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 135 | 1050.370 | 9.891 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 136 | 1045.633 | 8.965 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 137 | 1073.052 | 19.283 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 138 | 1068.332 | 18.286 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 139 | 1063.583 | 17.445 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 140 | 1058.911 | 16.466 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 141 | 1054.244 | 15.180 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 142 | 1049.515 | 13.678 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 143 | 1044.623 | 13.606 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 144 | 1072.089 | 24.089 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 145 | 1067.383 | 23.043 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 146 | 1063.336 | 22.333 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 147 | 1071.167 | 28.955 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 148 | 1066.465 | 27.909 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 149 | 1061.652 | 26.900 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 150 | 1060.757 | 31.667 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 151 | 1065.507 | 32.717 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 152 | 1070.212 | 33.586 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 153 | 1005.024 | 40.209 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 154 | 1005.906 | 35.542 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 155 | 1006.865 | 30.734 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 156 | 1003.996 | 30.119 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 157 | 1007.766 | 25.968 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 158 | 1008.817 | 21.229 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 159 | 1009.650 | 16.554 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 160 | 1010.918 | 11.750 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 161 | 1013.810 | 7.392 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 162 | 1017.337 | 3.251 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 163 | 1022.989 | -0.609 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 164 | 1028.629 | -4.364 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 165 | 1030.837 | -8.840 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 166 | 1035.295 | -12.856 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 167 | 1036.212 | -17.618 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 168 | 1038.569 | -22.014 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 169 | 1040.393 | -26.609 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 170 | 1004.814 | 42.629 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 171 | 1005.417 | 37.809 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 172 | 1005.951 | 33.080 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 173 | 1004.020 | 32.684 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 174 | 1004.968 | 27.927 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 175 | 1007.318 | 28.293 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 176 | 1008.309 | 23.595 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 177 | 1009.142 | 18.920 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 178 | 1010.143 | 14.172 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 179 | 1011.702 | 9.472 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 180 | 1014.386 | 5.128 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 181 | 1016.754 | 5.448 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 182 | 1020.116 | 1.383 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 183 | 1025.863 | -2.406 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 184 | 1029.070 | -6.702 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 185 | 1033.744 | -10.784 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 186 | 1035.779 | -15.135 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 187 | 1037.943 | -19.618 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 188 | 1040.036 | -24.269 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 189 | 1040.896 | -28.418 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 190 | 1050.780 | -28.839 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 191 | 1050.415 | -27.141 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 192 | 1055.196 | -26.001 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 193 | 1054.767 | -24.522 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 194 | 1057.300 | -24.728 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 195 | 1059.384 | -22.784 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 196 | 1059.005 | -20.467 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 197 | 1063.616 | -19.556 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 198 | 1063.314 | -17.380 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 199 | 1074.008 | -32.253 | 2.4636E+01 | (1998,363,2300) | 2.4215E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 200 | 1075.467 | -29.487 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 201 | 1077.386 | -26.684 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 202 | 1079.740 | -26.187 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 203 | 1080.167 | -28.443 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 204 | 1082.034 | -25.648 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 205 | 1081.140 | -20.935 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 206 | 1083.451 | -20.497 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 207 | 1085.843 | -19.938 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 208 | 1083.939 | -22.793 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 209 | 1088.273 | -19.578 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 210 | 1088.603 | -21.853 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 211 | 1089.112 | -24.249 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 212 | 1089.612 | -26.597 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 213 | 1091.937 | -25.945 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 214 | 1091.464 | -23.748 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 215 | 1093.858 | -23.186 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 216 | 1094.329 | -25.642 | 2.4636E+01 | (1998,363,2300) | 2.4216E+01 | (1999,006,2300) | 2.4209E+01 | (1998,345,2300) |
| 217 | 1093.375 | -20.940 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 218 | 1092.933 | -18.634 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 219 | 1092.402 | -16.137 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 220 | 1092.010 | -13.823 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 221 | 1089.592 | -14.233 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 222 | 1087.253 | -14.784 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 223 | 1087.743 | -17.081 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 224 | 1082.536 | -15.682 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 225 | 1082.994 | -18.090 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 226 | 1080.712 | -18.678 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 227 | 1080.246 | -16.221 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 228 | 1067.917 | -16.157 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 229 | 1072.574 | -15.229 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 230 | 1077.332 | -14.280 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 231 | 1082.038 | -13.335 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 232 | 1086.804 | -12.428 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 233 | 1091.489 | -11.375 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 234 | 1065.026 | -14.309 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 235 | 1067.424 | -13.807 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 236 | 1069.672 | -13.334 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 237 | 1072.130 | -12.872 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 238 | 1074.428 | -12.386 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 239 | 1076.826 | -11.882 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 240 | 1079.224 | -11.376 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 241 | 1081.549 | -11.038 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 242 | 1083.937 | -10.480 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 243 | 1086.284 | -9.981 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 244 | 1088.641 | -9.531 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 245 | 1091.047 | -9.070 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 246 | 1096.198 | -22.892 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 247 | 1098.591 | -22.328 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 248 | 1100.911 | -21.933 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 249 | 1103.323 | -21.467 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 250 | 1105.715 | -20.900 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 251 | 1108.076 | -20.442 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 252 | 1110.436 | -19.982 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 253 | 1112.797 | -19.522 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 254 | 1115.096 | -19.020 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 255 | 1115.412 | -20.363 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 256 | 1117.517 | -18.599 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 257 | 1098.077 | -19.933 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 258 | 1102.867 | -19.112 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 259 | 1107.508 | -18.056 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 260 | 1112.347 | -17.218 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 261 | 1116.945 | -16.214 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 262 | 1090.513 | -19.046 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 263 | 1095.314 | -18.022 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 264 | 1097.642 | -17.678 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 265 | 1100.002 | -17.223 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 266 | 1102.392 | -16.657 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 267 | 1104.751 | -16.200 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 268 | 1107.070 | -15.802 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 269 | 1109.509 | -15.223 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 270 | 1111.858 | -14.714 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 271 | 1114.176 | -14.312 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 272 | 1097.179 | -15.272 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 273 | 1101.867 | -14.211 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 274 | 1106.643 | -13.337 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 275 | 1111.348 | -12.368 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 276 | 1094.318 | -13.380 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 277 | 1096.725 | -12.917 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 278 | 1098.983 | -12.481 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 279 | 1101.430 | -11.956 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 280 | 1103.768 | -11.399 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 281 | 1106.034 | -11.012 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 282 | 1108.542 | -10.524 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 283 | 1110.898 | -10.065 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 284 | 1113.255 | -9.604 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 285 | 1115.641 | -9.033 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 286 | 1117.967 | -8.680 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 287 | 1120.403 | -8.097 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 288 | 1121.947 | -7.740 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 289 | 1115.925 | -10.745 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 290 | 1096.212 | -10.520 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 291 | 1100.915 | -9.560 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 292 | 1105.649 | -8.487 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 293 | 1110.369 | -7.619 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 294 | 1115.039 | -6.758 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 295 | 1119.789 | -5.772 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 296 | 1123.989 | -4.372 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 297 | 1093.393 | -8.567 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 298 | 1095.899 | -8.085 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 299 | 1098.054 | -7.670 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 300 | 1100.460 | -7.205 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 301 | 1102.896 | -6.629 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 302 | 1105.110 | -6.252 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 303 | 1107.515 | -5.784 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 304 | 1109.920 | -5.315 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 305 | 1112.355 | -4.735 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 306 | 1114.658 | -4.284 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 307 | 1117.012 | -3.822 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 308 | 1119.336 | -3.469 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 309 | 1121.770 | -2.886 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 310 | 1124.073 | -2.431 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 311 | 1125.767 | -1.263 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 312 | 1123.648 | -0.017 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 313 | 1118.912 | -1.055 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 314 | 1114.206 | -1.980 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 315 | 1109.500 | -2.901 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 316 | 1104.693 | -3.837 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 317 | 1099.894 | -4.819 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 318 | 1095.226 | -5.668 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 319 | 1090.495 | -6.733 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 320 | 1087.730 | -4.768 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 321 | 1090.034 | -4.327 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 322 | 1092.397 | -3.925 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 323 | 1094.781 | -3.362 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 324 | 1097.135 | -2.908 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 325 | 1099.448 | -2.514 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 326 | 1101.892 | -1.988 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 327 | 1104.235 | -1.482 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 328 | 1106.588 | -1.024 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 329 | 1108.940 | -0.566 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 330 | 1111.302 | -0.156 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 331 | 1113.685 | 0.415 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 332 | 1116.047 | 0.826 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 333 | 1118.339 | 1.329 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 334 | 1120.841 | 1.822 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 335 | 1123.152 | 2.226 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 336 | 1124.933 | 2.683 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 337 | 1089.582 | -1.971 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 338 | 1094.328 | -1.007 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 339 | 1099.083 | -0.089 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 340 | 1103.727 | 0.863 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 341 | 1108.481 | 1.789 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 342 | 1113.274 | 2.779 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 343 | 1117.985 | 3.652 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 344 | 1122.627 | 4.620 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 345 | 1124.577 | 5.006 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 346 | 1086.728 | -0.075 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 347 | 1089.131 | 0.385 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 348 | 1091.523 | 0.897 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 349 | 1093.815 | 1.389 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 350 | 1096.026 | 1.764 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 351 | 1098.568 | 2.306 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 352 | 1100.919 | 2.762 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 353 | 1103.320 | 3.228 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 354 | 1105.761 | 3.755 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 355 | 1108.012 | 4.194 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 356 | 1110.352 | 4.704 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 357 | 1112.653 | 5.154 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 358 | 1115.142 | 5.694 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 359 | 1117.542 | 6.166 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 360 | 1119.842 | 6.619 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 361 | 1122.151 | 7.024 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 362 | 1124.031 | 7.500 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 363 | 1088.669 | 2.792 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 364 | 1093.352 | 3.795 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 365 | 1098.043 | 4.753 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 366 | 1102.843 | 5.684 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 367 | 1107.652 | 6.568 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 368 | 1112.181 | 7.558 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 369 | 1116.979 | 8.500 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 370 | 1121.735 | 9.387 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 371 | 1123.578 | 12.145 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 372 | 1123.759 | 13.586 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 373 | 1121.201 | 11.831 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 374 | 1121.132 | 12.962 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 375 | 1118.973 | 11.287 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 376 | 1118.675 | 12.529 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 377 | 1116.545 | 10.704 | 2.1878E+01 | (1999,045,2300) | 2.1781E+01 | (1998,345,2300) | 2.1490E+01 | (1998,329,2300) |
| 378 | 1114.227 | 10.352 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 379 | 1111.830 | 9.882 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 380 | 1109.441 | 9.362 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 381 | 1107.043 | 8.893 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 382 | 1104.694 | 8.435 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 383 | 1102.335 | 8.029 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 384 | 1100.056 | 7.482 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 385 | 1097.656 | 7.018 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 386 | 1095.307 | 6.564 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 387 | 1092.967 | 6.060 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 388 | 1090.517 | 5.589 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 389 | 1088.158 | 5.189 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 390 | 1085.867 | 4.698 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 391 | 1087.725 | 7.444 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 392 | 1092.413 | 8.398 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 393 | 1097.151 | 9.363 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 394 | 1101.828 | 10.374 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 395 | 1106.523 | 11.288 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 396 | 1111.418 | 12.246 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 397 | 1116.052 | 13.209 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 398 | 1117.834 | 16.005 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 399 | 1115.638 | 15.572 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 400 | 1113.262 | 15.001 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 401 | 1110.856 | 14.580 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 402 | 1108.520 | 14.071 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 403 | 1106.104 | 13.703 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 404 | 1103.807 | 13.256 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 405 | 1101.380 | 12.679 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 406 | 1099.023 | 12.274 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 407 | 1096.635 | 11.760 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 408 | 1094.258 | 11.196 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 409 | 1091.940 | 10.854 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 410 | 1089.662 | 10.311 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 411 | 1087.205 | 9.891 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 412 | 1084.966 | 9.411 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 413 | 1086.783 | 12.357 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 414 | 1091.467 | 13.310 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 415 | 1096.170 | 14.165 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 416 | 1100.903 | 15.135 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 417 | 1105.635 | 16.108 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 418 | 1110.335 | 16.975 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 419 | 1115.075 | 17.906 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 420 | 1119.289 | 21.236 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 421 | 1116.986 | 20.832 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 422 | 1114.642 | 20.370 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 423 | 1112.277 | 19.750 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 424 | 1109.933 | 19.290 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 425 | 1107.479 | 18.861 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 426 | 1105.135 | 18.403 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 427 | 1102.800 | 17.896 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 428 | 1100.455 | 17.440 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 429 | 1098.100 | 17.035 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 430 | 1095.774 | 16.480 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 431 | 1093.339 | 15.958 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 432 | 1091.043 | 15.516 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 433 | 1088.677 | 15.165 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 434 | 1086.292 | 14.654 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 435 | 1083.905 | 14.146 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 436 | 1085.799 | 16.951 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 437 | 1090.520 | 17.962 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 438 | 1095.249 | 18.926 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 439 | 1099.957 | 19.735 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 440 | 1104.726 | 20.767 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 441 | 1109.512 | 21.704 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 442 | 1114.138 | 22.665 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 443 | 1113.734 | 24.979 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 444 | 1111.342 | 24.509 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 445 | 1108.941 | 24.089 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 446 | 1106.658 | 23.590 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 447 | 1104.276 | 23.072 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 448 | 1101.923 | 22.666 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 449 | 1099.490 | 22.141 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 450 | 1097.147 | 21.686 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 451 | 1094.744 | 21.273 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 452 | 1092.410 | 20.770 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 453 | 1090.067 | 20.318 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 454 | 1087.672 | 19.857 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 455 | 1085.298 | 19.298 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 456 | 1082.944 | 18.899 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 457 | 1084.877 | 21.764 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 458 | 1089.563 | 22.664 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 459 | 1094.338 | 23.638 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 460 | 1099.063 | 24.606 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 461 | 1103.797 | 25.527 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 462 | 1108.340 | 26.364 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 463 | 1112.963 | 27.324 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 464 | 1112.439 | 29.719 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 465 | 1110.348 | 29.308 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 466 | 1108.058 | 28.858 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 467 | 1105.678 | 28.339 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 468 | 1103.277 | 27.923 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 469 | 1100.986 | 27.476 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 470 | 1098.496 | 26.992 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 471 | 1096.155 | 26.538 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 472 | 1093.833 | 25.984 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 473 | 1091.451 | 25.472 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 474 | 1089.050 | 25.061 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 475 | 1086.767 | 24.570 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 476 | 1084.356 | 24.211 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 477 | 1082.002 | 23.552 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 478 | 1083.864 | 26.508 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 479 | 1088.587 | 27.468 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 480 | 1093.337 | 28.281 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 481 | 1098.107 | 29.257 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 482 | 1102.907 | 30.348 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 483 | 1107.606 | 31.163 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 484 | 1103.982 | 33.229 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 485 | 1102.408 | 32.642 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 486 | 1100.009 | 32.227 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 487 | 1097.581 | 31.703 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 488 | 1095.242 | 31.249 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 489 | 1092.852 | 30.786 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 490 | 1090.482 | 30.224 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 491 | 1088.133 | 29.824 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 492 | 1085.793 | 29.374 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 493 | 1083.502 | 28.934 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 494 | 1081.122 | 28.426 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 495 | 1083.011 | 31.231 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 496 | 1087.789 | 32.148 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |

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|---|---|---|---|---|---|---|---|---|
| 497 | 1092.357 | 33.083 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 498 | 1097.133 | 34.008 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 499 | 1100.753 | 35.721 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 500 | 1099.347 | 35.447 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 501 | 1097.614 | 35.176 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 502 | 1097.787 | 36.638 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 503 | 1096.650 | 38.900 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 504 | 1096.327 | 41.124 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 505 | 1094.568 | 34.584 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 506 | 1092.229 | 34.011 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 507 | 1089.931 | 33.226 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 508 | 1087.331 | 33.945 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 509 | 1085.141 | 32.601 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 510 | 1082.621 | 32.767 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 511 | 1080.307 | 32.268 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 512 | 1069.749 | 35.927 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 513 | 1072.086 | 36.423 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 514 | 1072.554 | 34.074 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 515 | 1074.769 | 34.495 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 516 | 1067.808 | 33.118 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 517 | 1063.090 | 32.176 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 518 | 1058.458 | 30.877 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 519 | 1056.820 | 29.582 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 520 | 1058.872 | 28.839 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 521 | 1061.353 | 29.356 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 522 | 1063.693 | 29.796 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 523 | 1065.982 | 30.227 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 524 | 1068.431 | 30.638 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 525 | 1070.761 | 31.131 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 526 | 1073.032 | 31.665 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 527 | 1075.408 | 32.167 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 528 | 1077.863 | 32.130 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 529 | 1064.086 | 27.428 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 530 | 1068.758 | 28.361 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 531 | 1073.569 | 29.377 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 532 | 1078.290 | 30.328 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 533 | 1062.886 | 24.761 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 534 | 1064.571 | 25.130 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 535 | 1066.913 | 25.571 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 536 | 1069.185 | 26.104 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 537 | 1071.545 | 26.447 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 538 | 1073.967 | 27.010 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 539 | 1076.368 | 27.415 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 540 | 1078.689 | 27.961 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 541 | 1065.043 | 22.621 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 542 | 1069.709 | 23.605 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 543 | 1074.484 | 24.562 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 544 | 1079.248 | 25.573 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 545 | 1063.162 | 19.722 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 546 | 1065.568 | 20.382 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 547 | 1067.821 | 20.755 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 548 | 1070.195 | 21.307 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 549 | 1072.498 | 21.691 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 550 | 1074.982 | 22.214 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 551 | 1077.306 | 22.760 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 552 | 1079.767 | 23.125 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 553 | 1056.447 | 15.868 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 554 | 1061.190 | 17.015 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 555 | 1065.912 | 18.005 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 556 | 1070.601 | 18.890 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 557 | 1075.379 | 19.848 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 558 | 1080.108 | 20.799 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 559 | 1080.567 | 18.392 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 560 | 1078.272 | 17.955 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 561 | 1075.936 | 17.459 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 562 | 1073.541 | 17.005 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 563 | 1071.156 | 16.501 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 564 | 1068.869 | 16.017 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 565 | 1066.474 | 15.566 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 566 | 1064.138 | 15.074 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 567 | 1061.692 | 14.615 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 568 | 1059.305 | 14.117 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 569 | 1056.968 | 13.629 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 570 | 1054.512 | 13.224 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 571 | 1052.215 | 12.797 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 572 | 1051.805 | 15.005 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 573 | 1049.837 | 12.252 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 574 | 1047.530 | 11.877 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 575 | 1047.137 | 13.725 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 576 | 1045.161 | 11.284 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 577 | 1042.320 | 13.252 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 578 | 1042.813 | 10.852 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 579 | 1043.387 | 8.570 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 580 | 1048.035 | 9.426 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 581 | 1052.721 | 10.347 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 582 | 1057.467 | 11.230 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 583 | 1062.134 | 12.257 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 584 | 1066.877 | 13.148 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 585 | 1071.592 | 14.194 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 586 | 1076.434 | 15.112 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 587 | 1043.731 | 6.141 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 588 | 1046.080 | 6.574 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 589 | 1048.570 | 7.086 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 590 | 1050.860 | 7.561 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 591 | 1053.159 | 7.987 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 592 | 1055.490 | 8.524 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 593 | 1057.938 | 8.980 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 594 | 1060.277 | 9.469 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 595 | 1062.625 | 9.909 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 596 | 1064.964 | 10.399 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 597 | 1067.362 | 10.849 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 598 | 1069.710 | 11.292 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 599 | 1072.206 | 11.763 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 600 | 1074.494 | 12.249 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 601 | 1076.822 | 12.795 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |

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|---|---|---|---|---|---|---|---|---|
| 602 | 1079.220 | 13.251 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 603 | 1049.016 | 4.676 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 604 | 1053.637 | 5.688 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 605 | 1058.397 | 6.521 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 606 | 1063.127 | 7.509 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 607 | 1067.825 | 8.392 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 608 | 1072.552 | 9.387 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 609 | 1077.289 | 10.338 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 610 | 1058.846 | 4.113 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 611 | 1061.237 | 4.611 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 612 | 1063.637 | 5.060 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 613 | 1065.919 | 5.592 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 614 | 1068.318 | 6.043 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 615 | 1070.658 | 6.537 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 616 | 1073.098 | 7.049 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 617 | 1075.457 | 7.444 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 618 | 1077.797 | 7.940 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 619 | 1080.176 | 8.496 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 620 | 1065.361 | 3.047 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 621 | 1068.803 | 3.745 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 622 | 1073.544 | 4.692 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 623 | 1078.285 | 5.642 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 624 | 1081.116 | 16.054 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 625 | 1081.506 | 13.739 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 626 | 1082.026 | 11.291 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 627 | 1082.425 | 8.925 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 628 | 1082.944 | 6.478 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 629 | 1066.963 | 0.854 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 630 | 1069.256 | 1.338 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 631 | 1071.667 | 1.739 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 632 | 1074.071 | 2.454 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 633 | 1076.341 | 2.780 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 634 | 1078.802 | 3.194 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 635 | 1081.134 | 3.742 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 636 | 1083.584 | 4.209 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 637 | 1069.740 | -0.961 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 638 | 1074.486 | -0.013 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 639 | 1079.290 | 0.898 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 640 | 1083.893 | 1.774 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 641 | 1070.244 | -3.360 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 642 | 1072.648 | -2.907 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 643 | 1074.991 | -2.411 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 644 | 1077.335 | -1.916 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 645 | 1079.678 | -1.419 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 646 | 1082.081 | -0.962 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 647 | 1084.333 | -0.533 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 648 | 1084.833 | -2.879 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 649 | 1080.185 | -3.817 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 650 | 1075.477 | -4.709 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 651 | 1070.646 | -5.776 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 652 | 1069.033 | -8.781 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 653 | 1071.100 | -8.184 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 654 | 1073.496 | -7.681 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 655 | 1075.842 | -7.186 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 656 | 1078.297 | -6.721 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 657 | 1080.593 | -6.234 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 658 | 1083.007 | -5.826 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 659 | 1085.302 | -5.337 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 660 | 1085.842 | -7.623 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 661 | 1081.050 | -8.640 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 662 | 1076.448 | -9.565 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 663 | 1071.634 | -10.473 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |
| 664 | 1067.498 | -11.666 | 2.5335E+01 | (1998,300,2300) | 2.5195E+01 | (1998,362,2300) | 2.5195E+01 | (1998,317,2300) |
| 665 | 1074.296 | 36.865 | 2.5195E+01 | (1999,010,2300) | 2.5195E+01 | (1998,318,2300) | 2.5054E+01 | (1998,306,2300) |

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CALPOST Version 5.2 Level 991104b

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COUNTS OF 24 HOUR AVERAGE EXTINCTION EXCEEDENCES AT EACH DISCRETE RECEPTOR (1/Mega-m)

THRESHOLD VALUE = 1.0000E+00 VISIB B _SN_F

| RECEPTOR | COORDINATES (km) | | COUNT |
|---|---|---|---|
| 1 | 1090.063 | 32.672 | 333 |
| 2 | 1094.800 | 33.536 | 333 |
| 3 | 1099.515 | 34.504 | 333 |
| 4 | 1109.871 | 31.743 | 333 |
| 5 | 1105.063 | 30.697 | 333 |
| 6 | 1100.433 | 29.793 | 333 |
| 7 | 1095.713 | 28.825 | 333 |
| 8 | 1090.972 | 27.959 | 333 |
| 9 | 1086.260 | 26.948 | 333 |
| 10 | 1081.528 | 26.041 | 333 |
| 11 | 1080.586 | 30.695 | 333 |
| 12 | 1085.255 | 31.643 | 333 |
| 13 | 1075.857 | 29.793 | 333 |
| 14 | 1076.854 | 25.098 | 333 |
| 15 | 1077.811 | 20.343 | 333 |
| 16 | 1082.489 | 21.287 | 333 |
| 17 | 1087.265 | 22.255 | 333 |
| 18 | 1091.891 | 23.197 | 333 |
| 19 | 1096.636 | 24.063 | 333 |
| 20 | 1101.419 | 24.993 | 333 |
| 21 | 1106.093 | 25.956 | 333 |
| 22 | 1110.816 | 26.935 | 333 |
| 23 | 1078.718 | 15.579 | 333 |
| 24 | 1083.450 | 16.533 | 333 |
| 25 | 1088.180 | 17.492 | 333 |
| 26 | 1092.860 | 18.446 | 333 |
| 27 | 1097.608 | 19.312 | 333 |
| 28 | 1102.337 | 20.283 | 333 |
| 29 | 1107.024 | 21.198 | 333 |

| | | | |
|---|---|---|---|
| 30 | 1111.751 | 22.176 | 333 |
| 31 | 1116.536 | 23.118 | 333 |
| 32 | 1117.405 | 18.450 | 333 |
| 33 | 1112.775 | 17.487 | 333 |
| 34 | 1107.995 | 16.497 | 333 |
| 35 | 1103.314 | 15.532 | 333 |
| 36 | 1098.531 | 14.551 | 333 |
| 37 | 1093.889 | 13.653 | 333 |
| 38 | 1089.086 | 12.780 | 333 |
| 39 | 1084.391 | 11.881 | 333 |
| 40 | 1079.615 | 10.865 | 333 |
| 41 | 1080.572 | 6.111 | 333 |
| 42 | 1085.262 | 7.057 | 333 |
| 43 | 1090.069 | 7.927 | 333 |
| 44 | 1094.748 | 8.932 | 333 |
| 45 | 1099.534 | 9.909 | 333 |
| 46 | 1104.231 | 10.822 | 333 |
| 47 | 1108.916 | 11.789 | 333 |
| 48 | 1113.650 | 12.768 | 333 |
| 49 | 1118.343 | 8.895 | 333 |
| 50 | 1114.645 | 7.970 | 333 |
| 51 | 1109.947 | 7.049 | 333 |
| 52 | 1105.217 | 6.022 | 333 |
| 53 | 1100.517 | 5.109 | 333 |
| 54 | 1095.727 | 4.129 | 333 |
| 55 | 1090.984 | 3.165 | 333 |
| 56 | 1086.313 | 2.373 | 333 |
| 57 | 1081.579 | 1.366 | 333 |
| 58 | 1082.486 | -3.398 | 333 |
| 59 | 1087.225 | -2.390 | 333 |
| 60 | 1091.940 | -1.538 | 333 |
| 61 | 1096.726 | -0.512 | 333 |
| 62 | 1101.491 | 0.358 | 333 |
| 63 | 1106.125 | 1.362 | 333 |
| 64 | 1110.837 | 2.229 | 333 |
| 65 | 1115.590 | 3.161 | 333 |
| 66 | 1120.321 | 4.198 | 333 |
| 67 | 1121.260 | -0.560 | 333 |
| 68 | 1116.555 | -1.486 | 333 |
| 69 | 1111.868 | -2.509 | 333 |
| 70 | 1107.112 | -3.437 | 333 |
| 71 | 1102.354 | -4.362 | 333 |
| 72 | 1097.645 | -5.273 | 333 |
| 73 | 1092.946 | -6.230 | 333 |
| 74 | 1088.245 | -7.183 | 333 |
| 75 | 1083.384 | -8.111 | 333 |
| 76 | 1084.391 | -12.855 | 333 |
| 77 | 1089.147 | -11.896 | 333 |
| 78 | 1093.861 | -10.992 | 333 |
| 79 | 1098.514 | -10.044 | 333 |
| 80 | 1103.327 | -9.112 | 333 |
| 81 | 1107.969 | -8.107 | 333 |
| 82 | 1112.779 | -7.168 | 333 |
| 83 | 1117.430 | -6.205 | 333 |
| 84 | 1122.239 | -5.258 | 333 |
| 85 | 1113.710 | -11.926 | 333 |
| 86 | 1109.015 | -12.947 | 333 |
| 87 | 1104.290 | -13.814 | 333 |
| 88 | 1099.583 | -14.776 | 333 |
| 89 | 1094.756 | -15.654 | 333 |
| 90 | 1090.108 | -16.649 | 333 |
| 91 | 1085.349 | -17.609 | 333 |
| 92 | 1114.631 | -16.635 | 333 |
| 93 | 1109.983 | -17.647 | 333 |
| 94 | 1105.163 | -18.583 | 333 |
| 95 | 1100.534 | -19.426 | 333 |
| 96 | 1095.731 | -20.455 | 333 |
| 97 | 1091.050 | -21.301 | 333 |
| 98 | 1096.696 | -25.207 | 333 |
| 99 | 1086.296 | -22.313 | 333 |
| 100 | 1126.005 | 0.430 | 333 |
| 101 | 1124.139 | 9.843 | 333 |
| 102 | 1081.592 | -23.311 | 333 |
| 103 | 1077.877 | -28.999 | 333 |
| 104 | 1079.644 | -13.861 | 333 |
| 105 | 1074.988 | -14.794 | 333 |
| 106 | 1070.271 | -15.682 | 333 |
| 107 | 1065.531 | -16.726 | 333 |
| 108 | 1061.265 | -19.755 | 333 |
| 109 | 1057.055 | -23.392 | 333 |
| 110 | 1052.913 | -27.427 | 333 |
| 111 | 1048.176 | -28.247 | 333 |
| 112 | 1069.234 | -10.994 | 333 |
| 113 | 1074.089 | -10.029 | 333 |
| 114 | 1078.773 | -8.987 | 333 |
| 115 | 1073.039 | -5.292 | 333 |
| 116 | 1077.798 | -4.392 | 333 |
| 117 | 1067.395 | -1.473 | 333 |
| 118 | 1072.131 | -0.478 | 333 |
| 119 | 1076.835 | 0.412 | 333 |
| 120 | 1075.832 | 5.158 | 333 |
| 121 | 1071.201 | 4.178 | 333 |
| 122 | 1066.518 | 3.193 | 333 |
| 123 | 1074.889 | 9.863 | 333 |
| 124 | 1070.202 | 8.925 | 333 |
| 125 | 1065.523 | 7.940 | 333 |
| 126 | 1060.733 | 6.991 | 333 |
| 127 | 1056.025 | 6.165 | 333 |
| 128 | 1051.363 | 5.092 | 333 |
| 129 | 1046.522 | 4.145 | 333 |
| 130 | 1073.986 | 14.627 | 333 |
| 131 | 1069.252 | 13.681 | 333 |
| 132 | 1064.538 | 12.637 | 333 |
| 133 | 1059.883 | 11.818 | 333 |
| 134 | 1055.057 | 10.814 | 333 |

| | | | |
|---|---|---|---|
| 135 | 1050.370 | 9.891 | 333 |
| 136 | 1045.633 | 8.965 | 333 |
| 137 | 1073.052 | 19.283 | 333 |
| 138 | 1068.332 | 18.286 | 333 |
| 139 | 1063.583 | 17.445 | 333 |
| 140 | 1058.911 | 16.466 | 333 |
| 141 | 1054.244 | 15.180 | 333 |
| 142 | 1049.515 | 13.678 | 333 |
| 143 | 1044.623 | 13.606 | 333 |
| 144 | 1072.089 | 24.089 | 333 |
| 145 | 1067.383 | 23.043 | 333 |
| 146 | 1063.336 | 22.333 | 333 |
| 147 | 1071.167 | 28.955 | 333 |
| 148 | 1066.465 | 27.909 | 333 |
| 149 | 1061.652 | 26.900 | 333 |
| 150 | 1060.757 | 31.667 | 333 |
| 151 | 1065.507 | 32.717 | 333 |
| 152 | 1070.212 | 33.586 | 333 |
| 153 | 1005.024 | 40.209 | 333 |
| 154 | 1005.906 | 35.542 | 333 |
| 155 | 1006.865 | 30.734 | 333 |
| 156 | 1003.996 | 30.119 | 333 |
| 157 | 1007.766 | 25.968 | 333 |
| 158 | 1008.817 | 21.229 | 333 |
| 159 | 1009.650 | 16.554 | 333 |
| 160 | 1010.918 | 11.750 | 333 |
| 161 | 1013.810 | 7.392 | 333 |
| 162 | 1017.337 | 3.251 | 333 |
| 163 | 1022.989 | -0.609 | 333 |
| 164 | 1028.629 | -4.364 | 333 |
| 165 | 1030.837 | -8.840 | 333 |
| 166 | 1035.295 | -12.856 | 333 |
| 167 | 1036.212 | -17.618 | 333 |
| 168 | 1038.569 | -22.014 | 333 |
| 169 | 1040.393 | -26.609 | 333 |
| 170 | 1004.814 | 42.629 | 333 |
| 171 | 1005.417 | 37.809 | 333 |
| 172 | 1005.951 | 33.080 | 333 |
| 173 | 1004.020 | 32.684 | 333 |
| 174 | 1004.968 | 27.927 | 333 |
| 175 | 1007.318 | 28.293 | 333 |
| 176 | 1008.309 | 23.595 | 333 |
| 177 | 1009.142 | 18.920 | 333 |
| 178 | 1010.143 | 14.172 | 333 |
| 179 | 1011.702 | 9.472 | 333 |
| 180 | 1014.386 | 5.128 | 333 |
| 181 | 1016.754 | 5.448 | 333 |
| 182 | 1020.116 | 1.383 | 333 |
| 183 | 1025.863 | -2.406 | 333 |
| 184 | 1029.070 | -6.702 | 333 |
| 185 | 1033.744 | -10.784 | 333 |
| 186 | 1035.779 | -15.135 | 333 |
| 187 | 1037.943 | -19.618 | 333 |
| 188 | 1040.036 | -24.269 | 333 |
| 189 | 1040.896 | -28.418 | 333 |
| 190 | 1050.780 | -28.839 | 333 |
| 191 | 1050.415 | -27.141 | 333 |
| 192 | 1055.196 | -26.001 | 333 |
| 193 | 1054.767 | -24.522 | 333 |
| 194 | 1057.300 | -24.728 | 333 |
| 195 | 1059.384 | -22.784 | 333 |
| 196 | 1059.005 | -20.467 | 333 |
| 197 | 1063.616 | -19.556 | 333 |
| 198 | 1063.314 | -17.380 | 333 |
| 199 | 1074.008 | -32.253 | 333 |
| 200 | 1075.467 | -29.487 | 333 |
| 201 | 1077.386 | -26.684 | 333 |
| 202 | 1079.740 | -26.187 | 333 |
| 203 | 1080.167 | -28.443 | 333 |
| 204 | 1082.034 | -25.648 | 333 |
| 205 | 1081.140 | -20.935 | 333 |
| 206 | 1083.451 | -20.497 | 333 |
| 207 | 1085.843 | -19.938 | 333 |
| 208 | 1083.939 | -22.793 | 333 |
| 209 | 1088.273 | -19.578 | 333 |
| 210 | 1088.603 | -21.853 | 333 |
| 211 | 1089.112 | -24.249 | 333 |
| 212 | 1089.612 | -26.597 | 333 |
| 213 | 1091.937 | -25.945 | 333 |
| 214 | 1091.464 | -23.748 | 333 |
| 215 | 1093.858 | -23.186 | 333 |
| 216 | 1094.329 | -25.642 | 333 |
| 217 | 1093.375 | -20.940 | 333 |
| 218 | 1092.933 | -18.634 | 333 |
| 219 | 1092.402 | -16.137 | 333 |
| 220 | 1092.010 | -13.823 | 333 |
| 221 | 1089.592 | -14.233 | 333 |
| 222 | 1087.253 | -14.784 | 333 |
| 223 | 1087.743 | -17.081 | 333 |
| 224 | 1082.536 | -15.682 | 333 |
| 225 | 1082.994 | -18.090 | 333 |
| 226 | 1080.712 | -18.678 | 333 |
| 227 | 1080.246 | -16.221 | 333 |
| 228 | 1067.917 | -16.157 | 333 |
| 229 | 1072.574 | -15.229 | 333 |
| 230 | 1077.332 | -14.280 | 333 |
| 231 | 1082.038 | -13.335 | 333 |
| 232 | 1086.804 | -12.428 | 333 |
| 233 | 1091.489 | -11.375 | 333 |
| 234 | 1065.026 | -14.309 | 333 |
| 235 | 1067.424 | -13.807 | 333 |
| 236 | 1069.672 | -13.334 | 333 |
| 237 | 1072.130 | -12.872 | 333 |
| 238 | 1074.428 | -12.386 | 333 |
| 239 | 1076.826 | -11.882 | 333 |

| | | | |
|---|---|---|---|
| 240 | 1079.224 | -11.376 | 333 |
| 241 | 1081.549 | -11.038 | 333 |
| 242 | 1083.937 | -10.480 | 333 |
| 243 | 1086.284 | -9.981 | 333 |
| 244 | 1088.641 | -9.531 | 333 |
| 245 | 1091.047 | -9.070 | 333 |
| 246 | 1096.198 | -22.892 | 333 |
| 247 | 1098.591 | -22.328 | 333 |
| 248 | 1100.911 | -21.933 | 333 |
| 249 | 1103.323 | -21.467 | 333 |
| 250 | 1105.715 | -20.900 | 333 |
| 251 | 1108.076 | -20.442 | 333 |
| 252 | 1110.436 | -19.982 | 333 |
| 253 | 1112.797 | -19.522 | 333 |
| 254 | 1115.096 | -19.020 | 333 |
| 255 | 1115.412 | -20.363 | 333 |
| 256 | 1117.517 | -18.599 | 333 |
| 257 | 1098.077 | -19.933 | 333 |
| 258 | 1102.867 | -19.112 | 333 |
| 259 | 1107.508 | -18.056 | 333 |
| 260 | 1112.347 | -17.218 | 333 |
| 261 | 1116.945 | -16.214 | 333 |
| 262 | 1090.513 | -19.046 | 333 |
| 263 | 1095.314 | -18.022 | 333 |
| 264 | 1097.642 | -17.678 | 333 |
| 265 | 1100.002 | -17.223 | 333 |
| 266 | 1102.392 | -16.657 | 333 |
| 267 | 1104.751 | -16.200 | 333 |
| 268 | 1107.070 | -15.802 | 333 |
| 269 | 1109.509 | -15.223 | 333 |
| 270 | 1111.858 | -14.714 | 333 |
| 271 | 1114.176 | -14.312 | 333 |
| 272 | 1097.179 | -15.272 | 333 |
| 273 | 1101.867 | -14.211 | 333 |
| 274 | 1106.643 | -13.337 | 333 |
| 275 | 1111.348 | -12.368 | 333 |
| 276 | 1094.318 | -13.380 | 333 |
| 277 | 1096.725 | -12.917 | 333 |
| 278 | 1098.983 | -12.481 | 333 |
| 279 | 1101.430 | -11.956 | 333 |
| 280 | 1103.768 | -11.399 | 333 |
| 281 | 1106.034 | -11.012 | 333 |
| 282 | 1108.542 | -10.524 | 333 |
| 283 | 1110.898 | -10.065 | 333 |
| 284 | 1113.255 | -9.604 | 333 |
| 285 | 1115.641 | -9.033 | 333 |
| 286 | 1117.967 | -8.680 | 333 |
| 287 | 1120.403 | -8.097 | 333 |
| 288 | 1121.947 | -7.740 | 333 |
| 289 | 1115.925 | -10.745 | 333 |
| 290 | 1096.212 | -10.520 | 333 |
| 291 | 1100.915 | -9.560 | 333 |
| 292 | 1105.649 | -8.487 | 333 |
| 293 | 1110.369 | -7.619 | 333 |
| 294 | 1115.039 | -6.758 | 333 |
| 295 | 1119.789 | -5.772 | 333 |
| 296 | 1123.989 | -4.372 | 333 |
| 297 | 1093.393 | -8.567 | 333 |
| 298 | 1095.899 | -8.085 | 333 |
| 299 | 1098.054 | -7.670 | 333 |
| 300 | 1100.460 | -7.205 | 333 |
| 301 | 1102.896 | -6.629 | 333 |
| 302 | 1105.110 | -6.252 | 333 |
| 303 | 1107.515 | -5.784 | 333 |
| 304 | 1109.920 | -5.315 | 333 |
| 305 | 1112.355 | -4.735 | 333 |
| 306 | 1114.658 | -4.284 | 333 |
| 307 | 1117.012 | -3.822 | 333 |
| 308 | 1119.336 | -3.469 | 333 |
| 309 | 1121.770 | -2.886 | 333 |
| 310 | 1124.073 | -2.431 | 333 |
| 311 | 1125.767 | -1.263 | 333 |
| 312 | 1123.648 | -0.017 | 333 |
| 313 | 1118.912 | -1.055 | 333 |
| 314 | 1114.206 | -1.980 | 333 |
| 315 | 1109.500 | -2.901 | 333 |
| 316 | 1104.693 | -3.837 | 333 |
| 317 | 1099.894 | -4.819 | 333 |
| 318 | 1095.226 | -5.668 | 333 |
| 319 | 1090.495 | -6.733 | 333 |
| 320 | 1087.730 | -4.768 | 333 |
| 321 | 1090.034 | -4.327 | 333 |
| 322 | 1092.397 | -3.925 | 333 |
| 323 | 1094.781 | -3.362 | 333 |
| 324 | 1097.135 | -2.908 | 333 |
| 325 | 1099.448 | -2.514 | 333 |
| 326 | 1101.892 | -1.988 | 333 |
| 327 | 1104.235 | -1.482 | 333 |
| 328 | 1106.588 | -1.024 | 333 |
| 329 | 1108.940 | -0.566 | 333 |
| 330 | 1111.302 | -0.156 | 333 |
| 331 | 1113.685 | 0.415 | 333 |
| 332 | 1116.047 | 0.826 | 333 |
| 333 | 1118.339 | 1.329 | 333 |
| 334 | 1120.841 | 1.822 | 333 |
| 335 | 1123.152 | 2.226 | 333 |
| 336 | 1124.933 | 2.683 | 333 |
| 337 | 1089.582 | -1.971 | 333 |
| 338 | 1094.328 | -1.007 | 333 |
| 339 | 1099.083 | -0.089 | 333 |
| 340 | 1103.727 | 0.863 | 333 |
| 341 | 1108.481 | 1.789 | 333 |
| 342 | 1113.274 | 2.779 | 333 |
| 343 | 1117.985 | 3.652 | 333 |
| 344 | 1122.627 | 4.620 | 333 |

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| 345 | 1124.577 | 5.006 | 333 |
| 346 | 1086.728 | -0.075 | 333 |
| 347 | 1089.131 | 0.385 | 333 |
| 348 | 1091.523 | 0.897 | 333 |
| 349 | 1093.815 | 1.389 | 333 |
| 350 | 1096.026 | 1.764 | 333 |
| 351 | 1098.568 | 2.306 | 333 |
| 352 | 1100.919 | 2.762 | 333 |
| 353 | 1103.320 | 3.228 | 333 |
| 354 | 1105.761 | 3.755 | 333 |
| 355 | 1108.012 | 4.194 | 333 |
| 356 | 1110.352 | 4.704 | 333 |
| 357 | 1112.653 | 5.154 | 333 |
| 358 | 1115.142 | 5.694 | 333 |
| 359 | 1117.542 | 6.166 | 333 |
| 360 | 1119.842 | 6.619 | 333 |
| 361 | 1122.151 | 7.024 | 333 |
| 362 | 1124.031 | 7.500 | 333 |
| 363 | 1088.669 | 2.792 | 333 |
| 364 | 1093.352 | 3.795 | 333 |
| 365 | 1098.043 | 4.753 | 333 |
| 366 | 1102.843 | 5.684 | 333 |
| 367 | 1107.652 | 6.568 | 333 |
| 368 | 1112.181 | 7.558 | 333 |
| 369 | 1116.979 | 8.500 | 333 |
| 370 | 1121.735 | 9.387 | 333 |
| 371 | 1123.578 | 12.145 | 333 |
| 372 | 1123.759 | 13.586 | 333 |
| 373 | 1121.201 | 11.831 | 333 |
| 374 | 1121.132 | 12.962 | 333 |
| 375 | 1118.973 | 11.287 | 333 |
| 376 | 1118.675 | 12.529 | 333 |
| 377 | 1116.545 | 10.704 | 333 |
| 378 | 1114.227 | 10.352 | 333 |
| 379 | 1111.830 | 9.882 | 333 |
| 380 | 1109.441 | 9.362 | 333 |
| 381 | 1107.043 | 8.893 | 333 |
| 382 | 1104.694 | 8.435 | 333 |
| 383 | 1102.335 | 8.029 | 333 |
| 384 | 1100.056 | 7.482 | 333 |
| 385 | 1097.656 | 7.018 | 333 |
| 386 | 1095.307 | 6.564 | 333 |
| 387 | 1092.967 | 6.060 | 333 |
| 388 | 1090.517 | 5.589 | 333 |
| 389 | 1088.158 | 5.189 | 333 |
| 390 | 1085.867 | 4.698 | 333 |
| 391 | 1087.725 | 7.444 | 333 |
| 392 | 1092.413 | 8.398 | 333 |
| 393 | 1097.151 | 9.363 | 333 |
| 394 | 1101.828 | 10.374 | 333 |
| 395 | 1106.523 | 11.288 | 333 |
| 396 | 1111.418 | 12.246 | 333 |
| 397 | 1116.052 | 13.209 | 333 |
| 398 | 1117.834 | 16.005 | 333 |
| 399 | 1115.638 | 15.572 | 333 |
| 400 | 1113.262 | 15.001 | 333 |
| 401 | 1110.856 | 14.580 | 333 |
| 402 | 1108.520 | 14.071 | 333 |
| 403 | 1106.104 | 13.703 | 333 |
| 404 | 1103.807 | 13.256 | 333 |
| 405 | 1101.380 | 12.679 | 333 |
| 406 | 1099.023 | 12.274 | 333 |
| 407 | 1096.635 | 11.760 | 333 |
| 408 | 1094.258 | 11.196 | 333 |
| 409 | 1091.940 | 10.854 | 333 |
| 410 | 1089.662 | 10.311 | 333 |
| 411 | 1087.205 | 9.891 | 333 |
| 412 | 1084.966 | 9.411 | 333 |
| 413 | 1086.783 | 12.357 | 333 |
| 414 | 1091.467 | 13.310 | 333 |
| 415 | 1096.170 | 14.165 | 333 |
| 416 | 1100.903 | 15.135 | 333 |
| 417 | 1105.635 | 16.108 | 333 |
| 418 | 1110.335 | 16.975 | 333 |
| 419 | 1115.075 | 17.906 | 333 |
| 420 | 1119.289 | 21.236 | 333 |
| 421 | 1116.986 | 20.832 | 333 |
| 422 | 1114.642 | 20.370 | 333 |
| 423 | 1112.277 | 19.750 | 333 |
| 424 | 1109.933 | 19.290 | 333 |
| 425 | 1107.479 | 18.861 | 333 |
| 426 | 1105.135 | 18.403 | 333 |
| 427 | 1102.800 | 17.896 | 333 |
| 428 | 1100.455 | 17.440 | 333 |
| 429 | 1098.100 | 17.035 | 333 |
| 430 | 1095.774 | 16.480 | 333 |
| 431 | 1093.339 | 15.958 | 333 |
| 432 | 1091.043 | 15.516 | 333 |
| 433 | 1088.677 | 15.165 | 333 |
| 434 | 1086.292 | 14.654 | 333 |
| 435 | 1083.905 | 14.146 | 333 |
| 436 | 1085.799 | 16.951 | 333 |
| 437 | 1090.520 | 17.962 | 333 |
| 438 | 1095.249 | 18.926 | 333 |
| 439 | 1099.957 | 19.735 | 333 |
| 440 | 1104.726 | 20.767 | 333 |
| 441 | 1109.512 | 21.704 | 333 |
| 442 | 1114.138 | 22.665 | 333 |
| 443 | 1113.734 | 24.979 | 333 |
| 444 | 1111.342 | 24.509 | 333 |
| 445 | 1108.941 | 24.089 | 333 |
| 446 | 1106.658 | 23.590 | 333 |
| 447 | 1104.276 | 23.072 | 333 |
| 448 | 1101.923 | 22.666 | 333 |
| 449 | 1099.490 | 22.141 | 333 |

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|---|---|---|---|
| 450 | 1097.147 | 21.686 | 333 |
| 451 | 1094.744 | 21.273 | 333 |
| 452 | 1092.410 | 20.770 | 333 |
| 453 | 1090.067 | 20.318 | 333 |
| 454 | 1087.672 | 19.857 | 333 |
| 455 | 1085.298 | 19.298 | 333 |
| 456 | 1082.944 | 18.899 | 333 |
| 457 | 1084.877 | 21.764 | 333 |
| 458 | 1089.563 | 22.664 | 333 |
| 459 | 1094.338 | 23.638 | 333 |
| 460 | 1099.063 | 24.606 | 333 |
| 461 | 1103.797 | 25.527 | 333 |
| 462 | 1108.340 | 26.364 | 333 |
| 463 | 1112.963 | 27.324 | 333 |
| 464 | 1112.439 | 29.719 | 333 |
| 465 | 1110.348 | 29.308 | 333 |
| 466 | 1108.058 | 28.858 | 333 |
| 467 | 1105.678 | 28.339 | 333 |
| 468 | 1103.277 | 27.923 | 333 |
| 469 | 1100.986 | 27.476 | 333 |
| 470 | 1098.496 | 26.992 | 333 |
| 471 | 1096.155 | 26.538 | 333 |
| 472 | 1093.833 | 25.984 | 333 |
| 473 | 1091.451 | 25.472 | 333 |
| 474 | 1089.050 | 25.061 | 333 |
| 475 | 1086.767 | 24.570 | 333 |
| 476 | 1084.356 | 24.211 | 333 |
| 477 | 1082.002 | 23.552 | 333 |
| 478 | 1083.864 | 26.508 | 333 |
| 479 | 1088.587 | 27.468 | 333 |
| 480 | 1093.337 | 28.281 | 333 |
| 481 | 1098.107 | 29.257 | 333 |
| 482 | 1102.907 | 30.348 | 333 |
| 483 | 1107.606 | 31.163 | 333 |
| 484 | 1103.982 | 33.229 | 333 |
| 485 | 1102.408 | 32.642 | 333 |
| 486 | 1100.009 | 32.227 | 333 |
| 487 | 1097.581 | 31.703 | 333 |
| 488 | 1095.242 | 31.249 | 333 |
| 489 | 1092.852 | 30.786 | 333 |
| 490 | 1090.482 | 30.224 | 333 |
| 491 | 1088.133 | 29.824 | 333 |
| 492 | 1085.793 | 29.374 | 333 |
| 493 | 1083.502 | 28.934 | 333 |
| 494 | 1081.122 | 28.426 | 333 |
| 495 | 1083.011 | 31.231 | 333 |
| 496 | 1087.789 | 32.148 | 333 |
| 497 | 1092.357 | 33.083 | 333 |
| 498 | 1097.133 | 34.008 | 333 |
| 499 | 1100.753 | 35.721 | 333 |
| 500 | 1099.347 | 35.447 | 333 |
| 501 | 1097.614 | 35.176 | 333 |
| 502 | 1097.787 | 36.638 | 333 |
| 503 | 1096.650 | 38.900 | 333 |
| 504 | 1096.327 | 41.124 | 333 |
| 505 | 1094.568 | 34.584 | 333 |
| 506 | 1092.229 | 34.011 | 333 |
| 507 | 1089.931 | 33.226 | 333 |
| 508 | 1087.331 | 33.945 | 333 |
| 509 | 1085.141 | 32.601 | 333 |
| 510 | 1082.621 | 32.767 | 333 |
| 511 | 1080.307 | 32.268 | 333 |
| 512 | 1069.749 | 35.927 | 333 |
| 513 | 1072.086 | 36.423 | 333 |
| 514 | 1072.554 | 34.074 | 333 |
| 515 | 1074.769 | 34.495 | 333 |
| 516 | 1067.808 | 33.118 | 333 |
| 517 | 1063.090 | 32.176 | 333 |
| 518 | 1058.458 | 30.877 | 333 |
| 519 | 1056.820 | 29.582 | 333 |
| 520 | 1058.872 | 28.839 | 333 |
| 521 | 1061.353 | 29.356 | 333 |
| 522 | 1063.693 | 29.796 | 333 |
| 523 | 1065.982 | 30.227 | 333 |
| 524 | 1068.431 | 30.638 | 333 |
| 525 | 1070.761 | 31.131 | 333 |
| 526 | 1073.032 | 31.665 | 333 |
| 527 | 1075.408 | 32.167 | 333 |
| 528 | 1077.863 | 32.130 | 333 |
| 529 | 1064.086 | 27.428 | 333 |
| 530 | 1068.758 | 28.361 | 333 |
| 531 | 1073.569 | 29.377 | 333 |
| 532 | 1078.290 | 30.328 | 333 |
| 533 | 1062.886 | 24.761 | 333 |
| 534 | 1064.571 | 25.130 | 333 |
| 535 | 1066.913 | 25.571 | 333 |
| 536 | 1069.185 | 26.104 | 333 |
| 537 | 1071.545 | 26.447 | 333 |
| 538 | 1073.967 | 27.010 | 333 |
| 539 | 1076.368 | 27.415 | 333 |
| 540 | 1078.689 | 27.961 | 333 |
| 541 | 1065.043 | 22.621 | 333 |
| 542 | 1069.709 | 23.605 | 333 |
| 543 | 1074.484 | 24.562 | 333 |
| 544 | 1079.248 | 25.573 | 333 |
| 545 | 1063.162 | 19.722 | 333 |
| 546 | 1065.568 | 20.382 | 333 |
| 547 | 1067.821 | 20.755 | 333 |
| 548 | 1070.195 | 21.307 | 333 |
| 549 | 1072.498 | 21.691 | 333 |
| 550 | 1074.982 | 22.214 | 333 |
| 551 | 1077.306 | 22.760 | 333 |
| 552 | 1079.767 | 23.125 | 333 |
| 553 | 1056.447 | 15.868 | 333 |
| 554 | 1061.190 | 17.015 | 333 |

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|---|---|---|---|
| 555 | 1065.912 | 18.005 | 333 |
| 556 | 1070.601 | 18.890 | 333 |
| 557 | 1075.379 | 19.848 | 333 |
| 558 | 1080.108 | 20.799 | 333 |
| 559 | 1080.567 | 18.392 | 333 |
| 560 | 1078.272 | 17.955 | 333 |
| 561 | 1075.936 | 17.459 | 333 |
| 562 | 1073.541 | 17.005 | 333 |
| 563 | 1071.156 | 16.501 | 333 |
| 564 | 1068.869 | 16.017 | 333 |
| 565 | 1066.474 | 15.566 | 333 |
| 566 | 1064.138 | 15.074 | 333 |
| 567 | 1061.692 | 14.615 | 333 |
| 568 | 1059.305 | 14.117 | 333 |
| 569 | 1056.968 | 13.629 | 333 |
| 570 | 1054.512 | 13.224 | 333 |
| 571 | 1052.215 | 12.797 | 333 |
| 572 | 1051.805 | 15.005 | 333 |
| 573 | 1049.837 | 12.252 | 333 |
| 574 | 1047.530 | 11.877 | 333 |
| 575 | 1047.137 | 13.725 | 333 |
| 576 | 1045.161 | 11.284 | 333 |
| 577 | 1042.320 | 13.252 | 333 |
| 578 | 1042.813 | 10.852 | 333 |
| 579 | 1043.387 | 8.570 | 333 |
| 580 | 1048.035 | 9.426 | 333 |
| 581 | 1052.721 | 10.347 | 333 |
| 582 | 1057.467 | 11.230 | 333 |
| 583 | 1062.134 | 12.257 | 333 |
| 584 | 1066.877 | 13.148 | 333 |
| 585 | 1071.592 | 14.194 | 333 |
| 586 | 1076.434 | 15.112 | 333 |
| 587 | 1043.731 | 6.141 | 333 |
| 588 | 1046.080 | 6.574 | 333 |
| 589 | 1048.570 | 7.086 | 333 |
| 590 | 1050.860 | 7.561 | 333 |
| 591 | 1053.159 | 7.987 | 333 |
| 592 | 1055.490 | 8.524 | 333 |
| 593 | 1057.938 | 8.980 | 333 |
| 594 | 1060.277 | 9.469 | 333 |
| 595 | 1062.625 | 9.909 | 333 |
| 596 | 1064.964 | 10.399 | 333 |
| 597 | 1067.362 | 10.849 | 333 |
| 598 | 1069.710 | 11.292 | 333 |
| 599 | 1072.206 | 11.763 | 333 |
| 600 | 1074.494 | 12.249 | 333 |
| 601 | 1076.822 | 12.795 | 333 |
| 602 | 1079.220 | 13.251 | 333 |
| 603 | 1049.016 | 4.676 | 333 |
| 604 | 1053.637 | 5.688 | 333 |
| 605 | 1058.397 | 6.521 | 333 |
| 606 | 1063.127 | 7.509 | 333 |
| 607 | 1067.825 | 8.392 | 333 |
| 608 | 1072.552 | 9.387 | 333 |
| 609 | 1077.289 | 10.338 | 333 |
| 610 | 1058.846 | 4.113 | 333 |
| 611 | 1061.237 | 4.611 | 333 |
| 612 | 1063.637 | 5.060 | 333 |
| 613 | 1065.919 | 5.592 | 333 |
| 614 | 1068.318 | 6.043 | 333 |
| 615 | 1070.658 | 6.537 | 333 |
| 616 | 1073.098 | 7.049 | 333 |
| 617 | 1075.457 | 7.444 | 333 |
| 618 | 1077.797 | 7.940 | 333 |
| 619 | 1080.176 | 8.496 | 333 |
| 620 | 1065.361 | 3.047 | 333 |
| 621 | 1068.803 | 3.745 | 333 |
| 622 | 1073.544 | 4.692 | 333 |
| 623 | 1078.285 | 5.642 | 333 |
| 624 | 1081.116 | 16.054 | 333 |
| 625 | 1081.506 | 13.739 | 333 |
| 626 | 1082.026 | 11.291 | 333 |
| 627 | 1082.425 | 8.925 | 333 |
| 628 | 1082.944 | 6.478 | 333 |
| 629 | 1066.963 | 0.854 | 333 |
| 630 | 1069.256 | 1.338 | 333 |
| 631 | 1071.667 | 1.739 | 333 |
| 632 | 1074.071 | 2.454 | 333 |
| 633 | 1076.341 | 2.780 | 333 |
| 634 | 1078.802 | 3.194 | 333 |
| 635 | 1081.134 | 3.742 | 333 |
| 636 | 1083.584 | 4.209 | 333 |
| 637 | 1069.740 | -0.961 | 333 |
| 638 | 1074.486 | -0.013 | 333 |
| 639 | 1079.290 | 0.898 | 333 |
| 640 | 1083.893 | 1.774 | 333 |
| 641 | 1070.244 | -3.360 | 333 |
| 642 | 1072.648 | -2.907 | 333 |
| 643 | 1074.991 | -2.411 | 333 |
| 644 | 1077.335 | -1.916 | 333 |
| 645 | 1079.678 | -1.419 | 333 |
| 646 | 1082.081 | -0.962 | 333 |
| 647 | 1084.333 | -0.533 | 333 |
| 648 | 1084.833 | -2.879 | 333 |
| 649 | 1080.185 | -3.817 | 333 |
| 650 | 1075.477 | -4.709 | 333 |
| 651 | 1070.646 | -5.776 | 333 |
| 652 | 1069.033 | -8.781 | 333 |
| 653 | 1071.100 | -8.184 | 333 |
| 654 | 1073.496 | -7.681 | 333 |
| 655 | 1075.842 | -7.186 | 333 |
| 656 | 1078.297 | -6.721 | 333 |
| 657 | 1080.593 | -6.234 | 333 |
| 658 | 1083.007 | -5.826 | 333 |
| 659 | 1085.302 | -5.337 | 333 |

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| 660 | 1085.842 | -7.623 | 333 |
| 661 | 1081.050 | -8.640 | 333 |
| 662 | 1076.448 | -9.565 | 333 |
| 663 | 1071.634 | -10.473 | 333 |
| 664 | 1067.498 | -11.666 | 333 |
| 665 | 1074.296 | 36.865 | 333 |

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CALPOST Version 5.2 Level 991104b

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24HR VISIBILITY

VISIB B _SN_F

(1/Mega-m)

| YEAR | DAY | HR | RECEPTOR | COORDINATES (km) | | TYPE | BEXT(Model) | BEXT(BKG) | BEXT(Total) | %CHANGE | F(RH) | Modeled Extinction by Species bxSO4 | bxNO3 | bxOC | bxEC | bxPMC | bxPMF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1998 | 91 | 23 | 372 | 1123.759 | 13.586 | D | 0.063 | 16.021 | 16.084 | 0.39 | 2.535 | 0.005 | 0.029 | 0.000 | 0.000 | 0.000 | 0.028 |
| 1998 | 92 | 23 | 101 | 1124.139 | 9.843 | D | 0.137 | 17.084 | 17.221 | 0.80 | 4.306 | 0.018 | 0.085 | 0.000 | 0.000 | 0.000 | 0.034 |
| 1998 | 93 | 23 | 372 | 1123.759 | 13.586 | D | 0.136 | 16.105 | 16.241 | 0.85 | 2.675 | 0.015 | 0.079 | 0.000 | 0.000 | 0.000 | 0.042 |
| 1998 | 94 | 23 | 372 | 1123.759 | 13.586 | D | 0.006 | 15.985 | 15.991 | 0.04 | 2.474 | 0.001 | 0.003 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 95 | 23 | 100 | 1126.005 | 0.430 | D | 0.015 | 17.545 | 17.561 | 0.09 | 5.076 | 0.002 | 0.010 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 | 96 | 23 | 504 | 1096.327 | 41.124 | D | 0.000 | 16.116 | 16.116 | 0.00 | 2.693 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 97 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.600 | 15.600 | 0.00 | 1.833 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 98 | 23 | 464 | 1112.439 | 29.719 | D | 0.044 | 16.030 | 16.074 | 0.27 | 2.550 | 0.004 | 0.027 | 0.000 | 0.000 | 0.000 | 0.013 |
| 1998 | 99 | 23 | 372 | 1123.759 | 13.586 | D | 0.214 | 16.136 | 16.350 | 1.33 | 2.726 | 0.015 | 0.112 | 0.000 | 0.000 | 0.000 | 0.087 |
| 1998 | 100 | 23 | 504 | 1096.327 | 41.124 | D | 0.275 | 17.048 | 17.323 | 1.62 | 4.246 | 0.035 | 0.155 | 0.000 | 0.000 | 0.000 | 0.085 |
| 1998 | 101 | 23 | 373 | 1121.201 | 11.831 | D | 0.264 | 17.430 | 17.694 | 1.52 | 4.883 | 0.046 | 0.176 | 0.000 | 0.000 | 0.000 | 0.042 |
| 1998 | 102 | 23 | 170 | 1004.814 | 42.629 | D | 0.002 | 19.908 | 19.910 | 0.01 | 9.013 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 103 | 23 | 216 | 1094.329 | -25.642 | D | 0.076 | 18.842 | 18.918 | 0.40 | 7.237 | 0.010 | 0.052 | 0.000 | 0.000 | 0.000 | 0.014 |
| 1998 | 104 | 23 | 101 | 1124.139 | 9.843 | D | 0.095 | 17.164 | 17.259 | 0.55 | 4.440 | 0.007 | 0.050 | 0.000 | 0.000 | 0.000 | 0.038 |
| 1998 | 105 | 23 | 311 | 1125.767 | -1.263 | D | 0.003 | 16.311 | 16.314 | 0.02 | 3.019 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 106 | 23 | 372 | 1123.759 | 13.586 | D | 0.022 | 15.721 | 15.743 | 0.14 | 2.036 | 0.002 | 0.008 | 0.000 | 0.000 | 0.000 | 0.012 |
| 1998 | 107 | 23 | 504 | 1096.327 | 41.124 | D | 0.021 | 15.921 | 15.942 | 0.13 | 2.368 | 0.003 | 0.009 | 0.000 | 0.000 | 0.000 | 0.009 |
| 1998 | 108 | 23 | 170 | 1004.814 | 42.629 | D | 0.000 | 19.329 | 19.329 | 0.00 | 8.048 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 109 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.959 | 15.959 | 0.00 | 2.431 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 110 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.539 | 16.539 | 0.00 | 3.398 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 111 | 23 | 372 | 1123.759 | 13.586 | D | 0.003 | 15.773 | 15.777 | 0.02 | 2.122 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 112 | 23 | 256 | 1117.517 | -18.599 | D | 0.000 | 15.718 | 15.718 | 0.00 | 2.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 113 | 23 | 311 | 1125.767 | -1.263 | D | 0.001 | 18.752 | 18.753 | 0.00 | 7.087 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 114 | 23 | 100 | 1126.005 | 0.430 | D | 0.022 | 16.145 | 16.167 | 0.14 | 2.741 | 0.002 | 0.010 | 0.000 | 0.000 | 0.000 | 0.010 |
| 1998 | 115 | 23 | 101 | 1124.139 | 9.843 | D | 0.087 | 16.485 | 16.572 | 0.53 | 3.308 | 0.010 | 0.046 | 0.000 | 0.000 | 0.000 | 0.031 |
| 1998 | 116 | 23 | 464 | 1112.439 | 29.719 | D | 0.099 | 16.596 | 16.694 | 0.59 | 3.493 | 0.015 | 0.050 | 0.000 | 0.000 | 0.000 | 0.033 |
| 1998 | 117 | 23 | 420 | 1119.289 | 21.236 | D | 0.095 | 16.263 | 16.358 | 0.58 | 2.939 | 0.015 | 0.043 | 0.000 | 0.000 | 0.000 | 0.036 |
| 1998 | 118 | 23 | 98 | 1096.696 | -25.207 | D | 0.003 | 17.339 | 17.342 | 0.02 | 4.732 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 119 | 23 | 372 | 1123.759 | 13.586 | D | 0.033 | 16.041 | 16.074 | 0.21 | 2.568 | 0.002 | 0.005 | 0.000 | 0.000 | 0.000 | 0.026 |
| 1998 | 120 | 23 | 202 | 1079.740 | -26.187 | D | 0.292 | 19.834 | 20.126 | 1.47 | 8.891 | 0.050 | 0.190 | 0.000 | 0.000 | 0.000 | 0.052 |
| 1998 | 121 | 23 | 187 | 1037.943 | -19.618 | D | 0.150 | 19.922 | 20.072 | 0.75 | 9.037 | 0.019 | 0.112 | 0.000 | 0.000 | 0.000 | 0.019 |
| 1998 | 122 | 23 | 170 | 1004.814 | 42.629 | D | 0.008 | 20.181 | 20.189 | 0.04 | 9.469 | 0.002 | 0.004 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 123 | 23 | 101 | 1124.139 | 9.843 | D | 0.045 | 16.783 | 16.828 | 0.27 | 3.805 | 0.008 | 0.020 | 0.000 | 0.000 | 0.000 | 0.017 |
| 1998 | 124 | 23 | 311 | 1125.767 | -1.263 | D | 0.028 | 16.945 | 16.972 | 0.16 | 4.074 | 0.006 | 0.013 | 0.000 | 0.000 | 0.000 | 0.008 |
| 1998 | 125 | 23 | 311 | 1125.767 | -1.263 | D | 0.009 | 16.918 | 16.928 | 0.06 | 4.031 | 0.002 | 0.005 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 | 126 | 23 | 311 | 1125.767 | -1.263 | D | 0.005 | 16.677 | 16.682 | 0.03 | 3.628 | 0.001 | 0.003 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 127 | 23 | 420 | 1119.289 | 21.236 | D | 0.001 | 15.841 | 15.843 | 0.01 | 2.236 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 128 | 23 | 101 | 1124.139 | 9.843 | D | 0.116 | 16.475 | 16.591 | 0.70 | 3.292 | 0.016 | 0.063 | 0.000 | 0.000 | 0.000 | 0.036 |
| 1998 | 129 | 23 | 100 | 1126.005 | 0.430 | D | 0.284 | 17.992 | 18.276 | 1.58 | 5.819 | 0.049 | 0.180 | 0.000 | 0.000 | 0.000 | 0.055 |
| 1998 | 130 | 23 | 101 | 1124.139 | 9.843 | D | 0.131 | 17.172 | 17.303 | 0.76 | 4.453 | 0.027 | 0.073 | 0.000 | 0.000 | 0.000 | 0.032 |
| 1998 | 131 | 23 | 101 | 1124.139 | 9.843 | D | 0.135 | 16.855 | 16.990 | 0.80 | 3.924 | 0.025 | 0.073 | 0.000 | 0.000 | 0.000 | 0.037 |
| 1998 | 132 | 23 | 597 | 1067.362 | 10.849 | D | 0.100 | 18.131 | 18.231 | 0.55 | 6.052 | 0.022 | 0.064 | 0.000 | 0.000 | 0.000 | 0.014 |
| 1998 | 133 | 23 | 101 | 1124.139 | 9.843 | D | 0.006 | 16.574 | 16.580 | 0.04 | 3.457 | 0.001 | 0.003 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 134 | 23 | 464 | 1112.439 | 29.719 | D | 0.001 | 16.528 | 16.529 | 0.00 | 3.380 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 135 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.773 | 17.773 | 0.00 | 5.455 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 136 | 23 | 100 | 1126.005 | 0.430 | D | 0.023 | 16.002 | 16.025 | 0.14 | 2.503 | 0.002 | 0.008 | 0.000 | 0.000 | 0.000 | 0.014 |
| 1998 | 137 | 23 | 100 | 1126.005 | 0.430 | D | 0.037 | 16.957 | 16.994 | 0.22 | 4.095 | 0.004 | 0.024 | 0.000 | 0.000 | 0.000 | 0.010 |
| 1998 | 138 | 23 | 100 | 1126.005 | 0.430 | D | 0.038 | 17.250 | 17.288 | 0.22 | 4.584 | 0.003 | 0.025 | 0.000 | 0.000 | 0.000 | 0.010 |
| 1998 | 139 | 23 | 372 | 1123.759 | 13.586 | D | 0.019 | 16.096 | 16.115 | 0.12 | 2.659 | 0.001 | 0.010 | 0.000 | 0.000 | 0.000 | 0.007 |
| 1998 | 140 | 23 | 100 | 1126.005 | 0.430 | D | 0.018 | 15.563 | 15.581 | 0.12 | 1.771 | 0.001 | 0.008 | 0.000 | 0.000 | 0.000 | 0.008 |
| 1998 | 141 | 23 | 372 | 1123.759 | 13.586 | D | 0.007 | 15.732 | 15.739 | 0.04 | 2.054 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.004 |
| 1998 | 142 | 23 | 504 | 1096.327 | 41.124 | D | 0.028 | 16.226 | 16.254 | 0.17 | 2.877 | 0.004 | 0.011 | 0.000 | 0.000 | 0.000 | 0.013 |
| 1998 | 143 | 23 | 597 | 1067.362 | 10.849 | D | 0.007 | 20.894 | 20.902 | 0.04 | 10.657 | 0.002 | 0.004 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 144 | 23 | 170 | 1004.814 | 42.629 | D | 0.001 | 19.884 | 19.885 | 0.01 | 8.973 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 145 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.527 | 16.527 | 0.00 | 3.379 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 146 | 23 | 499 | 1100.753 | 35.721 | D | 0.024 | 16.211 | 16.235 | 0.15 | 2.852 | 0.003 | 0.012 | 0.000 | 0.000 | 0.000 | 0.009 |
| 1998 | 147 | 23 | 499 | 1100.753 | 35.721 | D | 0.071 | 17.732 | 17.803 | 0.40 | 5.387 | 0.013 | 0.041 | 0.000 | 0.000 | 0.000 | 0.017 |
| 1998 | 148 | 23 | 502 | 1097.787 | 36.638 | D | 0.007 | 18.189 | 18.196 | 0.04 | 6.148 | 0.001 | 0.003 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 | 149 | 23 | 499 | 1100.753 | 35.721 | D | 0.078 | 16.631 | 16.709 | 0.47 | 3.552 | 0.010 | 0.044 | 0.000 | 0.000 | 0.000 | 0.024 |
| 1998 | 150 | 23 | 464 | 1112.439 | 29.719 | D | 0.012 | 16.253 | 16.264 | 0.07 | 2.922 | 0.002 | 0.004 | 0.000 | 0.000 | 0.000 | 0.005 |
| 1998 | 151 | 23 | 464 | 1112.439 | 29.719 | D | 0.025 | 15.864 | 15.890 | 0.16 | 2.274 | 0.004 | 0.009 | 0.000 | 0.000 | 0.000 | 0.012 |
| 1998 | 152 | 23 | 100 | 1126.005 | 0.430 | D | 0.004 | 16.371 | 16.375 | 0.03 | 3.118 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 153 | 23 | 499 | 1100.753 | 35.721 | D | 0.135 | 16.351 | 16.486 | 0.82 | 3.086 | 0.010 | 0.051 | 0.000 | 0.000 | 0.000 | 0.074 |
| 1998 | 154 | 23 | 100 | 1126.005 | 0.430 | D | 0.002 | 16.983 | 16.985 | 0.01 | 4.139 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 155 | 23 | 100 | 1126.005 | 0.430 | D | 0.003 | 16.709 | 16.712 | 0.02 | 3.682 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 156 | 23 | 100 | 1126.005 | 0.430 | D | 0.001 | 16.131 | 16.132 | 0.00 | 2.719 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 157 | 23 | 100 | 1126.005 | 0.430 | D | 0.001 | 18.202 | 18.203 | 0.01 | 6.171 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 158 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.633 | 16.633 | 0.00 | 3.555 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 159 | 23 | 100 | 1126.005 | 0.430 | D | 0.002 | 16.874 | 16.876 | 0.01 | 3.957 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 160 | 23 | 101 | 1124.139 | 9.843 | D | 0.010 | 16.906 | 16.916 | 0.06 | 4.010 | 0.002 | 0.005 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 | 161 | 23 | 100 | 1126.005 | 0.430 | D | 0.001 | 18.127 | 18.127 | 0.01 | 6.044 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 162 | 23 | 100 | 1126.005 | 0.430 | D | 0.004 | 16.773 | 16.777 | 0.03 | 3.788 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 163 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.004 | 16.004 | 0.00 | 2.507 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 164 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.946 | 15.946 | 0.00 | 2.409 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 165 | 23 | 420 | 1119.289 | 21.236 | D | 0.000 | 16.299 | 16.300 | 0.00 | 2.999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 166 | 23 | 420 | 1119.289 | 21.236 | D | 0.005 | 16.067 | 16.071 | 0.03 | 2.611 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 167 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.796 | 15.796 | 0.00 | 2.160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 168 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.089 | 16.089 | 0.00 | 2.648 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 169 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.957 | 15.957 | 0.00 | 2.428 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 170 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.901 | 15.901 | 0.00 | 2.335 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 171 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.897 | 15.897 | 0.00 | 2.328 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 172 | 23 | 100 | 1126.005 | 0.430 | D | 0.000 | 16.134 | 16.135 | 0.00 | 2.724 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1998 173 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.423 | 16.423 | 0.00 | 3.204 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 174 23 | 420 | 1119.289 | 21.236 | D | 0.005 | 16.424 | 16.429 | 0.03 | 3.207 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 175 23 | 464 | 1112.439 | 29.719 | D | 0.001 | 17.031 | 17.032 | 0.00 | 4.219 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 176 23 | 420 | 1119.289 | 21.236 | D | 0.009 | 16.363 | 16.372 | 0.06 | 3.104 | 0.001 | 0.004 | 0.000 | 0.000 | 0.000 | 0.004 |
| 1998 177 23 | 101 | 1124.139 | 9.843 | D | 0.014 | 16.231 | 16.246 | 0.09 | 2.885 | 0.002 | 0.008 | 0.000 | 0.000 | 0.000 | 0.004 |
| 1998 178 23 | 100 | 1126.005 | 0.430 | D | 0.001 | 15.918 | 15.919 | 0.00 | 2.364 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 179 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.730 | 15.730 | 0.00 | 2.049 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 180 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.936 | 15.936 | 0.00 | 2.394 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 181 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.995 | 17.995 | 0.00 | 5.825 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 182 23 | 372 | 1123.759 | 13.586 | D | 0.000 | 17.336 | 17.336 | 0.00 | 4.726 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 183 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.513 | 17.513 | 0.00 | 5.021 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 184 23 | 464 | 1112.439 | 29.719 | D | 0.001 | 21.612 | 21.613 | 0.00 | 11.853 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 185 23 | 420 | 1119.289 | 21.236 | D | 0.000 | 18.855 | 18.855 | 0.00 | 7.258 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 186 23 | 504 | 1096.327 | 41.124 | D | 0.001 | 17.388 | 17.389 | 0.01 | 4.813 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 187 23 | 464 | 1112.439 | 29.719 | D | 0.039 | 18.145 | 18.184 | 0.22 | 6.075 | 0.008 | 0.024 | 0.000 | 0.000 | 0.000 | 0.007 |
| 1998 188 23 | 31 | 1116.536 | 23.118 | D | 0.000 | 17.865 | 17.865 | 0.00 | 5.609 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 189 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.732 | 17.732 | 0.00 | 5.387 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 190 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.873 | 15.873 | 0.00 | 2.288 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 191 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.162 | 16.162 | 0.00 | 2.769 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 192 23 | 464 | 1112.439 | 29.719 | D | 0.030 | 17.604 | 17.634 | 0.17 | 5.174 | 0.007 | 0.014 | 0.000 | 0.000 | 0.000 | 0.009 |
| 1998 193 23 | 504 | 1096.327 | 41.124 | D | 0.009 | 17.243 | 17.252 | 0.05 | 4.571 | 0.002 | 0.004 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 194 23 | 464 | 1112.439 | 29.719 | D | 0.006 | 16.054 | 16.060 | 0.04 | 2.590 | 0.001 | 0.003 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 195 23 | 504 | 1096.327 | 41.124 | D | 0.026 | 17.547 | 17.573 | 0.15 | 5.079 | 0.004 | 0.016 | 0.000 | 0.000 | 0.000 | 0.005 |
| 1998 196 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.683 | 17.683 | 0.00 | 5.304 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 197 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.757 | 16.757 | 0.00 | 3.762 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 198 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.591 | 16.591 | 0.00 | 3.486 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 199 23 | 464 | 1112.439 | 29.719 | D | 0.003 | 17.648 | 17.651 | 0.02 | 5.247 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 200 23 | 4 | 1109.871 | 31.743 | D | 0.046 | 16.344 | 16.391 | 0.28 | 3.074 | 0.009 | 0.018 | 0.000 | 0.000 | 0.000 | 0.020 |
| 1998 201 23 | 101 | 1124.139 | 9.843 | D | 0.132 | 16.289 | 16.421 | 0.81 | 2.982 | 0.024 | 0.070 | 0.000 | 0.000 | 0.000 | 0.038 |
| 1998 202 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.563 | 15.563 | 0.00 | 1.771 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 203 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.681 | 15.681 | 0.00 | 1.968 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 204 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.600 | 16.600 | 0.00 | 3.499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 205 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.277 | 16.277 | 0.00 | 2.962 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 206 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.294 | 17.294 | 0.00 | 4.657 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 207 23 | 311 | 1125.767 | -1.263 | D | 0.000 | 15.545 | 15.545 | 0.00 | 1.741 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 208 23 | 372 | 1123.759 | 13.586 | D | 0.000 | 15.768 | 15.768 | 0.00 | 2.114 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 209 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.749 | 15.749 | 0.00 | 2.081 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 210 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.848 | 15.848 | 0.00 | 2.247 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 211 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.378 | 16.378 | 0.00 | 3.131 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 212 23 | 464 | 1112.439 | 29.719 | D | 0.001 | 16.017 | 16.018 | 0.00 | 2.529 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 213 23 | 372 | 1123.759 | 13.586 | D | 0.000 | 16.043 | 16.043 | 0.00 | 2.572 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 214 23 | 100 | 1126.005 | 0.430 | D | 0.003 | 15.512 | 15.516 | 0.02 | 1.687 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 215 23 | 100 | 1126.005 | 0.430 | D | 0.000 | 15.711 | 15.711 | 0.00 | 2.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 216 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.690 | 15.690 | 0.00 | 1.983 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 217 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.258 | 17.258 | 0.00 | 4.597 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 218 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.232 | 16.232 | 0.00 | 2.887 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 219 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.613 | 15.613 | 0.00 | 1.855 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 220 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.769 | 15.769 | 0.00 | 2.116 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 221 23 | 100 | 1126.005 | 0.430 | D | 0.000 | 16.348 | 16.348 | 0.00 | 3.080 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 222 23 | 100 | 1126.005 | 0.430 | D | 0.015 | 16.150 | 16.165 | 0.10 | 2.750 | 0.002 | 0.007 | 0.000 | 0.000 | 0.000 | 0.006 |
| 1998 223 23 | 100 | 1126.005 | 0.430 | D | 0.000 | 15.964 | 15.964 | 0.00 | 2.440 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 224 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.924 | 15.924 | 0.00 | 2.374 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 225 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.825 | 15.825 | 0.00 | 2.209 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 226 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.017 | 17.017 | 0.00 | 4.194 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 227 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.889 | 15.889 | 0.00 | 2.315 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 228 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.017 | 16.017 | 0.00 | 2.528 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 229 23 | 372 | 1123.759 | 13.586 | D | 0.009 | 15.906 | 15.915 | 0.06 | 2.343 | 0.001 | 0.004 | 0.000 | 0.000 | 0.000 | 0.004 |
| 1998 230 23 | 372 | 1123.759 | 13.586 | D | 0.045 | 15.991 | 16.037 | 0.28 | 2.485 | 0.006 | 0.018 | 0.000 | 0.000 | 0.000 | 0.021 |
| 1998 231 23 | 101 | 1124.139 | 9.843 | D | 0.109 | 16.312 | 16.421 | 0.67 | 3.020 | 0.014 | 0.064 | 0.000 | 0.000 | 0.000 | 0.031 |
| 1998 232 23 | 101 | 1124.139 | 9.843 | D | 0.010 | 15.855 | 15.865 | 0.06 | 2.258 | 0.001 | 0.004 | 0.000 | 0.000 | 0.000 | 0.005 |
| 1998 233 23 | 464 | 1112.439 | 29.719 | D | 0.034 | 15.923 | 15.957 | 0.21 | 2.371 | 0.005 | 0.011 | 0.000 | 0.000 | 0.000 | 0.018 |
| 1998 234 23 | 101 | 1124.139 | 9.843 | D | 0.039 | 16.010 | 16.049 | 0.24 | 2.516 | 0.006 | 0.015 | 0.000 | 0.000 | 0.000 | 0.018 |
| 1998 235 23 | 372 | 1123.759 | 13.586 | D | 0.001 | 16.584 | 16.585 | 0.01 | 3.473 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 236 23 | 372 | 1123.759 | 13.586 | D | 0.002 | 16.961 | 16.963 | 0.01 | 4.102 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 237 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.138 | 16.138 | 0.00 | 2.729 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 238 23 | 100 | 1126.005 | 0.430 | D | 0.001 | 16.559 | 16.560 | 0.00 | 3.432 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 239 23 | 100 | 1126.005 | 0.430 | D | 0.000 | 15.821 | 15.821 | 0.00 | 2.201 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 240 23 | 256 | 1117.517 | -18.599 | D | 0.000 | 15.688 | 15.688 | 0.00 | 1.980 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 241 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.922 | 16.922 | 0.00 | 4.036 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 242 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.949 | 16.949 | 0.00 | 4.081 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 243 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.292 | 16.292 | 0.00 | 2.987 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 244 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.445 | 16.445 | 0.00 | 3.242 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 245 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.049 | 16.049 | 0.00 | 2.581 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 246 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.294 | 16.294 | 0.00 | 2.991 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 247 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.885 | 15.885 | 0.00 | 2.308 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 248 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.082 | 16.082 | 0.00 | 2.637 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 249 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.103 | 16.103 | 0.00 | 2.671 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 250 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.864 | 15.864 | 0.00 | 2.273 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 251 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.724 | 15.724 | 0.00 | 2.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 252 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.636 | 15.636 | 0.00 | 1.893 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 253 23 | 372 | 1123.759 | 13.586 | D | 0.016 | 16.235 | 16.251 | 0.10 | 2.892 | 0.001 | 0.007 | 0.000 | 0.000 | 0.000 | 0.008 |
| 1998 254 23 | 372 | 1123.759 | 13.586 | D | 0.003 | 16.146 | 16.149 | 0.02 | 2.744 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 255 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.210 | 16.210 | 0.00 | 2.850 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 256 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.637 | 16.637 | 0.00 | 3.562 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 257 23 | 256 | 1117.517 | -18.599 | D | 0.000 | 15.977 | 15.977 | 0.00 | 2.461 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 258 23 | 100 | 1126.005 | 0.430 | D | 0.001 | 15.439 | 15.440 | 0.01 | 1.565 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 259 23 | 101 | 1124.139 | 9.843 | D | 0.009 | 16.090 | 16.099 | 0.06 | 2.650 | 0.001 | 0.005 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 260 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.693 | 16.693 | 0.00 | 3.655 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 261 23 | 420 | 1119.289 | 21.236 | D | 0.000 | 18.906 | 18.906 | 0.00 | 7.343 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 262 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.965 | 15.965 | 0.00 | 2.441 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 263 23 | 372 | 1123.759 | 13.586 | D | 0.187 | 16.613 | 16.800 | 1.12 | 3.522 | 0.013 | 0.099 | 0.000 | 0.000 | 0.000 | 0.074 |
| 1998 264 23 | 311 | 1125.767 | -1.263 | D | 0.005 | 16.840 | 16.845 | 0.03 | 3.900 | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 265 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.594 | 16.594 | 0.00 | 3.490 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 266 23 | 372 | 1123.759 | 13.586 | D | 0.014 | 16.425 | 16.440 | 0.09 | 3.209 | 0.001 | 0.007 | 0.000 | 0.000 | 0.000 | 0.006 |
| 1998 267 23 | 256 | 1117.517 | -18.599 | D | 0.001 | 18.686 | 18.687 | 0.01 | 6.976 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 268 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.617 | 16.617 | 0.00 | 3.528 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 269 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.043 | 16.043 | 0.00 | 2.571 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 270 23 | 100 | 1126.005 | 0.430 | D | 0.006 | 16.002 | 16.008 | 0.04 | 2.503 | 0.000 | 0.003 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1998 271 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.957 | 15.957 | 0.00 | 2.428 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 272 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.375 | 17.375 | 0.00 | 4.792 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 273 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.218 | 16.218 | 0.00 | 2.863 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 274 23 | 311 | 1125.767 | -1.263 | D | 0.000 | 16.487 | 16.487 | 0.00 | 3.312 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 275 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.667 | 16.667 | 0.00 | 3.611 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 276 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.006 | 17.006 | 0.00 | 4.177 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 277 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.387 | 16.387 | 0.00 | 3.145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1998 | 278 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.457 | 16.457 | 0.00 | 3.262 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 279 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.281 | 17.281 | 0.00 | 4.635 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 280 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.891 | 16.891 | 0.00 | 3.985 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 281 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.396 | 17.396 | 0.00 | 4.827 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 282 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.062 | 19.062 | 0.00 | 7.604 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 283 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.488 | 19.488 | 0.00 | 8.314 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 284 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.386 | 18.386 | 0.00 | 6.476 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 285 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.730 | 17.730 | 0.00 | 5.383 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 286 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.838 | 19.838 | 0.00 | 8.897 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 287 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.800 | 16.800 | 0.00 | 3.834 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 288 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.450 | 16.450 | 0.00 | 3.249 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 289 | 23 | 464 | 1112.439 | 29.719 | D | 0.017 | 19.422 | 19.440 | 0.09 | 8.204 | 0.002 | 0.011 | 0.000 | 0.000 | 0.000 | 0.005 |
| 1998 | 290 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.315 | 19.315 | 0.00 | 8.026 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 291 | 23 | 372 | 1123.759 | 13.586 | D | 0.001 | 17.806 | 17.807 | 0.00 | 5.511 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 292 | 23 | 420 | 1119.289 | 21.236 | D | 0.165 | 17.759 | 17.924 | 0.93 | 5.432 | 0.012 | 0.064 | 0.000 | 0.000 | 0.000 | 0.088 |
| 1998 | 293 | 23 | 170 | 1004.814 | 42.629 | D | 0.039 | 17.999 | 18.038 | 0.22 | 5.832 | 0.004 | 0.029 | 0.000 | 0.000 | 0.000 | 0.006 |
| 1998 | 294 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.726 | 21.726 | 0.00 | 12.044 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 295 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.596 | 20.596 | 0.00 | 10.159 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 296 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 24.913 | 24.913 | 0.00 | 17.355 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 297 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.389 | 22.389 | 0.00 | 13.148 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 298 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.458 | 22.458 | 0.00 | 13.263 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 299 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.257 | 22.257 | 0.00 | 12.928 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 300 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.524 | 20.524 | 0.00 | 10.039 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 301 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.448 | 17.448 | 0.00 | 4.913 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 302 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.195 | 19.195 | 0.00 | 7.824 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 303 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.259 | 22.259 | 0.00 | 12.932 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 304 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.694 | 22.694 | 0.00 | 13.656 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 305 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 24.016 | 24.016 | 0.00 | 15.860 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 306 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 25.054 | 25.054 | 0.00 | 17.590 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 307 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.951 | 22.951 | 0.00 | 14.085 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 308 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 24.772 | 24.772 | 0.00 | 17.121 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 309 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.949 | 20.949 | 0.00 | 10.748 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 310 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.647 | 21.647 | 0.00 | 11.912 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 311 | 23 | 216 | 1094.329 | -25.642 | D | 0.211 | 20.572 | 20.783 | 1.03 | 10.119 | 0.031 | 0.155 | 0.000 | 0.000 | 0.000 | 0.026 |
| 1998 | 312 | 23 | 189 | 1040.896 | -28.418 | D | 0.011 | 20.658 | 20.669 | 0.05 | 10.263 | 0.001 | 0.009 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 313 | 23 | 372 | 1123.759 | 13.586 | D | 0.009 | 19.343 | 19.352 | 0.05 | 8.071 | 0.001 | 0.006 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 314 | 23 | 170 | 1004.814 | 42.629 | D | 0.000 | 19.616 | 19.616 | 0.00 | 8.527 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 315 | 23 | 170 | 1004.814 | 42.629 | D | 0.005 | 22.366 | 22.372 | 0.02 | 13.111 | 0.001 | 0.004 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1998 | 316 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.525 | 22.525 | 0.00 | 13.375 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 317 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.523 | 22.523 | 0.00 | 13.372 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 318 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 25.195 | 25.195 | 0.00 | 17.824 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 319 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.681 | 22.681 | 0.00 | 13.635 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 320 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.488 | 20.488 | 0.00 | 9.980 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 321 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.875 | 18.875 | 0.00 | 7.292 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 322 | 23 | 31 | 1116.536 | 23.118 | D | 0.000 | 17.509 | 17.509 | 0.00 | 5.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 323 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.129 | 23.129 | 0.00 | 14.382 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 324 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.251 | 23.251 | 0.00 | 14.585 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 325 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.029 | 19.029 | 0.00 | 7.549 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 326 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.571 | 20.571 | 0.00 | 10.118 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 327 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.605 | 20.605 | 0.00 | 10.175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 328 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.413 | 18.413 | 0.00 | 6.522 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 329 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.119 | 22.119 | 0.00 | 12.698 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 330 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.005 | 19.005 | 0.00 | 7.509 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 331 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.579 | 20.579 | 0.00 | 10.132 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 332 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.920 | 20.920 | 0.00 | 10.701 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 333 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.561 | 20.561 | 0.00 | 10.101 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 334 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.452 | 21.452 | 0.00 | 11.586 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 335 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.883 | 18.883 | 0.00 | 7.305 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 336 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.905 | 17.905 | 0.00 | 5.676 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 337 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.118 | 18.118 | 0.00 | 6.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 338 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.331 | 16.331 | 0.00 | 3.052 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 339 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.664 | 17.664 | 0.00 | 5.273 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 340 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.443 | 16.443 | 0.00 | 3.238 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 341 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.155 | 20.155 | 0.00 | 9.424 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 342 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.701 | 17.701 | 0.00 | 5.335 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 343 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.574 | 20.574 | 0.00 | 10.123 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 344 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.822 | 21.822 | 0.00 | 12.204 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 345 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 24.430 | 24.430 | 0.00 | 16.550 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 346 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 24.781 | 24.781 | 0.00 | 17.134 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 347 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.281 | 22.281 | 0.00 | 12.969 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 348 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.122 | 16.122 | 0.00 | 2.704 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 349 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.151 | 22.151 | 0.00 | 12.752 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 350 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.339 | 22.339 | 0.00 | 13.065 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 351 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.246 | 16.246 | 0.00 | 2.911 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 352 | 23 | 504 | 1096.327 | 41.124 | D | 0.048 | 15.566 | 15.615 | 0.31 | 1.777 | 0.002 | 0.016 | 0.000 | 0.000 | 0.000 | 0.030 |
| 1998 | 353 | 23 | 158 | 1008.817 | 21.229 | D | 0.109 | 15.202 | 15.311 | 0.72 | 1.169 | 0.002 | 0.026 | 0.000 | 0.000 | 0.000 | 0.081 |
| 1998 | 354 | 23 | 665 | 1074.296 | 36.865 | D | 0.098 | 15.260 | 15.359 | 0.64 | 1.267 | 0.003 | 0.032 | 0.000 | 0.000 | 0.000 | 0.063 |
| 1998 | 355 | 23 | 665 | 1074.296 | 36.865 | D | 0.018 | 17.721 | 17.740 | 0.10 | 5.369 | 0.001 | 0.008 | 0.000 | 0.000 | 0.000 | 0.010 |
| 1998 | 356 | 23 | 504 | 1096.327 | 41.124 | D | 0.006 | 16.631 | 16.637 | 0.04 | 3.551 | 0.000 | 0.004 | 0.000 | 0.000 | 0.000 | 0.002 |
| 1998 | 357 | 23 | 504 | 1096.327 | 41.124 | D | 0.000 | 18.225 | 18.225 | 0.00 | 6.209 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 358 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.352 | 21.352 | 0.00 | 11.420 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 359 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.148 | 23.148 | 0.00 | 14.413 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 360 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.615 | 17.615 | 0.00 | 5.191 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 361 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.936 | 21.936 | 0.00 | 12.393 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 362 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.291 | 17.291 | 0.00 | 4.652 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 363 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.251 | 21.251 | 0.00 | 11.252 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 364 | 23 | 4 | 1109.871 | 31.743 | D | 0.000 | 20.790 | 20.790 | 0.00 | 10.483 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1998 | 365 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.632 | 18.632 | 0.00 | 6.887 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 1 | 23 | 464 | 1112.439 | 29.719 | D | 0.050 | 17.777 | 17.827 | 0.28 | 5.461 | 0.007 | 0.034 | 0.000 | 0.000 | 0.000 | 0.009 |
| 1999 | 2 | 23 | 4 | 1109.871 | 31.743 | D | 1.166 | 19.451 | 20.617 | 6.00 | 8.252 | 0.152 | 0.739 | 0.000 | 0.000 | 0.000 | 0.275 |
| 1999 | 3 | 23 | 513 | 1072.086 | 36.423 | D | 0.910 | 20.965 | 21.875 | 4.34 | 10.776 | 0.094 | 0.656 | 0.000 | 0.000 | 0.000 | 0.159 |
| 1999 | 4 | 23 | 503 | 1096.650 | 38.900 | D | 0.399 | 20.965 | 21.364 | 1.90 | 10.776 | 0.048 | 0.293 | 0.000 | 0.000 | 0.000 | 0.058 |
| 1999 | 5 | 23 | 504 | 1096.327 | 41.124 | D | 0.036 | 23.245 | 23.280 | 0.15 | 14.574 | 0.005 | 0.028 | 0.000 | 0.000 | 0.000 | 0.003 |
| 1999 | 6 | 23 | 665 | 1074.296 | 36.865 | D | 0.010 | 21.361 | 21.371 | 0.05 | 11.435 | 0.002 | 0.007 | 0.000 | 0.000 | 0.000 | 0.001 |
| 1999 | 7 | 23 | 98 | 1096.696 | -25.207 | D | 0.000 | 22.087 | 22.087 | 0.00 | 12.645 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 8 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.429 | 19.429 | 0.00 | 8.214 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 9 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.681 | 22.681 | 0.00 | 13.635 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 10 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 25.195 | 25.195 | 0.00 | 17.824 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 11 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.955 | 23.955 | 0.00 | 15.758 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 12 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.120 | 22.120 | 0.00 | 12.700 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 13 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.346 | 19.346 | 0.00 | 8.076 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 14 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.443 | 20.443 | 0.00 | 9.905 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 15 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.255 | 18.255 | 0.00 | 6.258 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 16 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.968 | 20.968 | 0.00 | 10.780 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 | 17 | 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.486 | 22.486 | 0.00 | 13.311 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1999 18 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.514 | 23.514 | 0.00 | 15.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 19 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.795 | 23.795 | 0.00 | 15.492 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 20 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.602 | 23.602 | 0.00 | 15.170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 21 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.451 | 18.451 | 0.00 | 6.584 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 22 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.822 | 22.822 | 0.00 | 13.871 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1999 23 23 | 508 | 1087.331 | 33.945 | D | 0.877 | 19.482 | 20.359 | 4.50 | 8.304 | 0.075 | 0.494 | 0.000 | 0.000 | 0.000 | 0.309 | |
| 1999 24 23 | 513 | 1072.086 | 36.423 | D | 0.819 | 18.773 | 19.591 | 4.36 | 7.121 | 0.067 | 0.531 | 0.000 | 0.000 | 0.000 | 0.221 | |
| 1999 25 23 | 504 | 1096.327 | 41.124 | D | 0.047 | 17.963 | 18.009 | 0.26 | 5.771 | 0.006 | 0.028 | 0.000 | 0.000 | 0.000 | 0.013 | |
| 1999 26 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.067 | 20.067 | 0.00 | 9.278 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 27 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.409 | 17.409 | 0.00 | 4.849 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 28 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.170 | 21.170 | 0.00 | 11.117 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 29 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.278 | 20.278 | 0.00 | 9.631 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 30 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.786 | 21.786 | 0.00 | 12.143 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 31 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.242 | 20.242 | 0.00 | 9.569 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 32 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.340 | 17.340 | 0.00 | 4.733 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 33 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.239 | 18.239 | 0.00 | 6.231 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 34 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.425 | 18.425 | 0.00 | 6.542 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 35 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.275 | 20.275 | 0.00 | 9.626 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 36 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.844 | 20.844 | 0.00 | 10.573 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 37 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.769 | 20.769 | 0.00 | 10.448 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 38 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.088 | 20.088 | 0.00 | 9.314 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 39 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.736 | 20.736 | 0.00 | 10.393 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 40 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.232 | 18.232 | 0.00 | 6.220 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 41 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.881 | 17.881 | 0.00 | 5.634 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 42 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.864 | 16.864 | 0.00 | 3.940 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 43 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 15.400 | 15.400 | 0.00 | 1.501 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 44 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.792 | 16.792 | 0.00 | 3.820 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 45 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.864 | 16.864 | 0.00 | 3.940 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 46 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 16.969 | 16.969 | 0.00 | 4.115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 47 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.151 | 21.151 | 0.00 | 11.085 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 48 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.715 | 19.715 | 0.00 | 8.692 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 49 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.870 | 20.870 | 0.00 | 10.616 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 50 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.122 | 17.122 | 0.00 | 4.369 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 51 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.274 | 19.274 | 0.00 | 7.957 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 52 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 18.537 | 18.537 | 0.00 | 6.729 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 53 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 21.099 | 21.099 | 0.00 | 10.998 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 54 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 20.868 | 20.868 | 0.00 | 10.614 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 55 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 23.650 | 23.650 | 0.00 | 15.249 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 56 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 19.352 | 19.352 | 0.00 | 8.087 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 57 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 17.646 | 17.646 | 0.00 | 5.244 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 1999 58 23 | 1 | 1090.063 | 32.672 | D | 0.000 | 22.753 | 22.753 | 0.00 | 13.755 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

--- Number of days with Extinction Change => 5.0 % : 1
--- Number of days with Extinction Change => 10.0 % : 0
--- Largest Extinction Change = 6.00 %

**********
CALPOST Version 5.2 Level 991104b
**********

Run-Length VISIBILITY

VISIB B _SN_F

(1/Mega-m)

| RECEPTOR | COORDINATES (km) | | TYPE | BEXT(Model) | BEXT(BKG) | BEXT(Total) | %CHANGE | F(RH) |
|---|---|---|---|---|---|---|---|---|
| 499 | 1100.753 | 35.721 | D | 0.017 | 17.991 | 18.009 | 0.10 | 5.819 |

--- Number of recs with Extinction Change > 1.0 % : 0
--- Largest Extinction Change = 0.10 %

**********
CALPOST Version 5.2 Level 991104b
**********

24HR VISIBILITY

VISIB B _SN_F

(deciview)

| | | | | | | | | | % of Modeled Extinction by Species | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR DAY HR | RECEPTOR | COORDINATES (km) | | TYPE | DV(Total) | DV(BKG) | DELTA DV | F(RH) | %_SO4 | %_NO3 | %_OC | %_EC | %_PMC | %_PMF |
| 1998 91 23 | 372 | 1123.759 | 13.586 | D | 4.752 | 4.713 | 0.039 | 2.535 | 8.70 | 46.76 | 0.00 | 0.00 | 0.00 | 44.54 |
| 1998 92 23 | 101 | 1124.139 | 9.843 | D | 5.435 | 5.355 | 0.080 | 4.306 | 12.88 | 62.10 | 0.00 | 0.00 | 0.00 | 25.02 |
| 1998 93 23 | 372 | 1123.759 | 13.586 | D | 4.850 | 4.765 | 0.084 | 2.675 | 11.12 | 58.10 | 0.00 | 0.00 | 0.00 | 30.77 |
| 1998 94 23 | 372 | 1123.759 | 13.586 | D | 4.694 | 4.690 | 0.004 | 2.474 | 9.01 | 50.35 | 0.00 | 0.00 | 0.00 | 40.69 |
| 1998 95 23 | 100 | 1126.005 | 0.430 | D | 5.631 | 5.622 | 0.009 | 5.076 | 12.92 | 65.30 | 0.00 | 0.00 | 0.00 | 21.81 |
| 1998 96 23 | 504 | 1096.327 | 41.124 | D | 4.772 | 4.772 | 0.000 | 2.693 | 16.67 | 51.18 | 0.00 | 0.00 | 0.00 | 31.91 |
| 1998 97 23 | 1 | 1090.063 | 32.672 | D | 4.447 | 4.447 | 0.000 | 1.833 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 98 23 | 464 | 1112.439 | 29.719 | D | 4.746 | 4.719 | 0.027 | 2.550 | 8.42 | 62.12 | 0.00 | 0.00 | 0.00 | 29.46 |
| 1998 99 23 | 372 | 1123.759 | 13.586 | D | 4.916 | 4.785 | 0.132 | 2.726 | 7.15 | 52.11 | 0.00 | 0.00 | 0.00 | 40.74 |
| 1998 100 23 | 504 | 1096.327 | 41.124 | D | 5.495 | 5.334 | 0.160 | 4.246 | 12.67 | 56.38 | 0.00 | 0.00 | 0.00 | 30.95 |
| 1998 101 23 | 373 | 1121.201 | 11.831 | D | 5.706 | 5.556 | 0.151 | 4.883 | 17.31 | 66.66 | 0.00 | 0.00 | 0.00 | 16.03 |
| 1998 102 23 | 170 | 1004.814 | 42.629 | D | 6.886 | 6.885 | 0.001 | 9.013 | 25.99 | 63.63 | 0.00 | 0.00 | 0.00 | 10.45 |
| 1998 103 23 | 216 | 1094.329 | -25.642 | D | 6.375 | 6.335 | 0.040 | 7.237 | 12.99 | 68.56 | 0.00 | 0.00 | 0.00 | 18.45 |
| 1998 104 23 | 101 | 1124.139 | 9.843 | D | 5.457 | 5.402 | 0.055 | 4.440 | 7.50 | 52.33 | 0.00 | 0.00 | 0.00 | 40.17 |
| 1998 105 23 | 311 | 1125.767 | -1.263 | D | 4.895 | 4.893 | 0.002 | 3.019 | 7.36 | 63.72 | 0.00 | 0.00 | 0.00 | 28.90 |
| 1998 106 23 | 372 | 1123.759 | 13.586 | D | 4.538 | 4.524 | 0.014 | 2.036 | 9.85 | 36.16 | 0.00 | 0.00 | 0.00 | 53.99 |
| 1998 107 23 | 504 | 1096.327 | 41.124 | D | 4.663 | 4.651 | 0.013 | 2.368 | 13.25 | 42.71 | 0.00 | 0.00 | 0.00 | 44.05 |
| 1998 108 23 | 170 | 1004.814 | 42.629 | D | 6.590 | 6.590 | 0.000 | 8.048 | 22.48 | 49.12 | 0.00 | 0.00 | 0.00 | 28.85 |
| 1998 109 23 | 1 | 1090.063 | 32.672 | D | 4.674 | 4.674 | 0.000 | 2.431 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 110 23 | 1 | 1090.063 | 32.672 | D | 5.031 | 5.031 | 0.000 | 3.398 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 111 23 | 372 | 1123.759 | 13.586 | D | 4.559 | 4.557 | 0.002 | 2.122 | 7.78 | 37.81 | 0.00 | 0.00 | 0.00 | 54.43 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1998 | 112 | 23 | 256 | 1117.517 | -18.599 | D | 4.522 | 4.522 | 0.000 | 2.030 | 8.09 | 47.83 | 0.00 | 0.00 | 0.00 | 44.14 |
| 1998 | 113 | 23 | 311 | 1125.767 | -1.263 | D | 6.287 | 6.287 | 0.000 | 7.087 | 7.47 | 60.79 | 0.00 | 0.00 | 0.00 | 31.54 |
| 1998 | 114 | 23 | 100 | 1126.005 | 0.430 | D | 4.804 | 4.790 | 0.014 | 2.741 | 9.25 | 46.42 | 0.00 | 0.00 | 0.00 | 44.35 |
| 1998 | 115 | 23 | 101 | 1124.139 | 9.843 | D | 5.051 | 4.998 | 0.053 | 3.308 | 11.64 | 52.93 | 0.00 | 0.00 | 0.00 | 35.43 |
| 1998 | 116 | 23 | 464 | 1112.439 | 29.719 | D | 5.125 | 5.066 | 0.059 | 3.493 | 15.71 | 50.92 | 0.00 | 0.00 | 0.00 | 33.37 |
| 1998 | 117 | 23 | 420 | 1119.289 | 21.236 | D | 4.921 | 4.863 | 0.058 | 2.939 | 15.95 | 45.78 | 0.00 | 0.00 | 0.00 | 38.27 |
| 1998 | 118 | 23 | 98 | 1096.696 | -25.207 | D | 5.505 | 5.504 | 0.002 | 4.732 | 17.13 | 63.71 | 0.00 | 0.00 | 0.00 | 19.18 |
| 1998 | 119 | 23 | 372 | 1123.759 | 13.586 | D | 4.746 | 4.725 | 0.021 | 2.568 | 6.80 | 14.94 | 0.00 | 0.00 | 0.00 | 78.28 |
| 1998 | 120 | 23 | 202 | 1079.740 | -26.187 | D | 6.994 | 6.848 | 0.146 | 8.891 | 17.21 | 65.02 | 0.00 | 0.00 | 0.00 | 17.76 |
| 1998 | 121 | 23 | 187 | 1037.943 | -19.618 | D | 6.968 | 6.892 | 0.075 | 9.037 | 12.90 | 74.58 | 0.00 | 0.00 | 0.00 | 12.52 |
| 1998 | 122 | 23 | 170 | 1004.814 | 42.629 | D | 7.025 | 7.022 | 0.004 | 9.469 | 24.78 | 52.16 | 0.00 | 0.00 | 0.00 | 23.05 |
| 1998 | 123 | 23 | 101 | 1124.139 | 9.843 | D | 5.204 | 5.178 | 0.027 | 3.805 | 18.59 | 44.23 | 0.00 | 0.00 | 0.00 | 37.18 |
| 1998 | 124 | 23 | 311 | 1125.767 | -1.263 | D | 5.290 | 5.274 | 0.016 | 4.074 | 22.77 | 48.25 | 0.00 | 0.00 | 0.00 | 28.99 |
| 1998 | 125 | 23 | 311 | 1125.767 | -1.263 | D | 5.264 | 5.258 | 0.006 | 4.031 | 18.39 | 53.52 | 0.00 | 0.00 | 0.00 | 28.08 |
| 1998 | 126 | 23 | 311 | 1125.767 | -1.263 | D | 5.118 | 5.114 | 0.003 | 3.628 | 17.14 | 57.58 | 0.00 | 0.00 | 0.00 | 25.25 |
| 1998 | 127 | 23 | 420 | 1119.289 | 21.236 | D | 4.601 | 4.600 | 0.001 | 2.236 | 11.65 | 34.84 | 0.00 | 0.00 | 0.00 | 53.62 |
| 1998 | 128 | 23 | 101 | 1124.139 | 9.843 | D | 5.063 | 4.993 | 0.070 | 3.292 | 14.11 | 54.42 | 0.00 | 0.00 | 0.00 | 31.47 |
| 1998 | 129 | 23 | 100 | 1126.005 | 0.430 | D | 6.030 | 5.873 | 0.157 | 5.819 | 17.24 | 63.31 | 0.00 | 0.00 | 0.00 | 19.45 |
| 1998 | 130 | 23 | 101 | 1124.139 | 9.843 | D | 5.483 | 5.407 | 0.076 | 4.453 | 20.28 | 55.50 | 0.00 | 0.00 | 0.00 | 24.22 |
| 1998 | 131 | 23 | 101 | 1124.139 | 9.843 | D | 5.300 | 5.220 | 0.080 | 3.924 | 18.63 | 53.87 | 0.00 | 0.00 | 0.00 | 27.50 |
| 1998 | 132 | 23 | 597 | 1067.362 | 10.849 | D | 6.006 | 5.950 | 0.055 | 6.052 | 22.16 | 63.63 | 0.00 | 0.00 | 0.00 | 14.21 |
| 1998 | 133 | 23 | 101 | 1124.139 | 9.843 | D | 5.056 | 5.053 | 0.004 | 3.457 | 11.80 | 49.44 | 0.00 | 0.00 | 0.00 | 38.76 |
| 1998 | 134 | 23 | 464 | 1112.439 | 29.719 | D | 5.025 | 5.025 | 0.000 | 3.380 | 12.75 | 38.74 | 0.00 | 0.00 | 0.00 | 48.43 |
| 1998 | 135 | 23 | 1 | 1090.063 | 32.672 | D | 5.751 | 5.751 | 0.000 | 5.455 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 136 | 23 | 100 | 1126.005 | 0.430 | D | 4.715 | 4.701 | 0.014 | 2.503 | 6.64 | 32.95 | 0.00 | 0.00 | 0.00 | 60.40 |
| 1998 | 137 | 23 | 100 | 1126.005 | 0.430 | D | 5.303 | 5.281 | 0.022 | 4.095 | 9.60 | 63.05 | 0.00 | 0.00 | 0.00 | 27.35 |
| 1998 | 138 | 23 | 100 | 1126.005 | 0.430 | D | 5.474 | 5.452 | 0.022 | 4.584 | 8.96 | 65.64 | 0.00 | 0.00 | 0.00 | 25.41 |
| 1998 | 139 | 23 | 372 | 1123.759 | 13.586 | D | 4.771 | 4.760 | 0.012 | 2.659 | 7.31 | 54.51 | 0.00 | 0.00 | 0.00 | 38.18 |
| 1998 | 140 | 23 | 100 | 1126.005 | 0.430 | D | 4.435 | 4.423 | 0.012 | 1.771 | 7.62 | 46.16 | 0.00 | 0.00 | 0.00 | 46.21 |
| 1998 | 141 | 23 | 372 | 1123.759 | 13.586 | D | 4.535 | 4.531 | 0.004 | 2.054 | 11.99 | 33.04 | 0.00 | 0.00 | 0.00 | 55.02 |
| 1998 | 142 | 23 | 504 | 1096.327 | 41.124 | D | 4.858 | 4.841 | 0.017 | 2.877 | 16.11 | 38.85 | 0.00 | 0.00 | 0.00 | 45.05 |
| 1998 | 143 | 23 | 597 | 1067.362 | 10.849 | D | 7.372 | 7.369 | 0.004 | 10.657 | 30.10 | 56.36 | 0.00 | 0.00 | 0.00 | 13.53 |
| 1998 | 144 | 23 | 170 | 1004.814 | 42.629 | D | 6.874 | 6.873 | 0.001 | 8.973 | 35.46 | 49.26 | 0.00 | 0.00 | 0.00 | 15.24 |
| 1998 | 145 | 23 | 1 | 1090.063 | 32.672 | D | 5.024 | 5.024 | 0.000 | 3.379 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 146 | 23 | 499 | 1100.753 | 35.721 | D | 4.846 | 4.831 | 0.015 | 2.852 | 13.99 | 49.86 | 0.00 | 0.00 | 0.00 | 36.15 |
| 1998 | 147 | 23 | 499 | 1100.753 | 35.721 | D | 5.768 | 5.728 | 0.040 | 5.387 | 18.13 | 57.74 | 0.00 | 0.00 | 0.00 | 24.14 |
| 1998 | 148 | 23 | 502 | 1097.787 | 36.638 | D | 5.986 | 5.982 | 0.004 | 6.148 | 10.99 | 44.85 | 0.00 | 0.00 | 0.00 | 44.18 |
| 1998 | 149 | 23 | 499 | 1100.753 | 35.721 | D | 5.134 | 5.087 | 0.047 | 3.552 | 12.97 | 56.68 | 0.00 | 0.00 | 0.00 | 30.35 |
| 1998 | 150 | 23 | 464 | 1112.439 | 29.719 | D | 4.864 | 4.857 | 0.007 | 2.922 | 18.84 | 36.34 | 0.00 | 0.00 | 0.00 | 44.82 |
| 1998 | 151 | 23 | 464 | 1112.439 | 29.719 | D | 4.631 | 4.615 | 0.016 | 2.274 | 17.43 | 33.57 | 0.00 | 0.00 | 0.00 | 49.00 |
| 1998 | 152 | 23 | 100 | 1126.005 | 0.430 | D | 4.932 | 4.929 | 0.003 | 3.118 | 14.41 | 38.45 | 0.00 | 0.00 | 0.00 | 47.18 |
| 1998 | 153 | 23 | 499 | 1100.753 | 35.721 | D | 4.999 | 4.917 | 0.082 | 3.086 | 7.11 | 37.98 | 0.00 | 0.00 | 0.00 | 54.91 |
| 1998 | 154 | 23 | 100 | 1126.005 | 0.430 | D | 5.298 | 5.296 | 0.001 | 4.139 | 7.36 | 61.02 | 0.00 | 0.00 | 0.00 | 31.58 |
| 1998 | 155 | 23 | 100 | 1126.005 | 0.430 | D | 5.135 | 5.134 | 0.002 | 3.682 | 18.04 | 56.13 | 0.00 | 0.00 | 0.00 | 25.80 |
| 1998 | 156 | 23 | 100 | 1126.005 | 0.430 | D | 4.782 | 4.782 | 0.000 | 2.719 | 6.36 | 55.82 | 0.00 | 0.00 | 0.00 | 37.93 |
| 1998 | 157 | 23 | 100 | 1126.005 | 0.430 | D | 5.990 | 5.990 | 0.001 | 6.171 | 10.03 | 66.03 | 0.00 | 0.00 | 0.00 | 23.77 |
| 1998 | 158 | 23 | 1 | 1090.063 | 32.672 | D | 5.088 | 5.088 | 0.000 | 3.555 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 159 | 23 | 100 | 1126.005 | 0.430 | D | 5.233 | 5.232 | 0.001 | 3.957 | 9.02 | 57.82 | 0.00 | 0.00 | 0.00 | 33.11 |
| 1998 | 160 | 23 | 101 | 1124.139 | 9.843 | D | 5.257 | 5.251 | 0.006 | 4.010 | 16.28 | 49.82 | 0.00 | 0.00 | 0.00 | 33.85 |
| 1998 | 161 | 23 | 100 | 1126.005 | 0.430 | D | 5.948 | 5.948 | 0.001 | 6.044 | 8.23 | 66.72 | 0.00 | 0.00 | 0.00 | 24.79 |
| 1998 | 162 | 23 | 100 | 1126.005 | 0.430 | D | 5.175 | 5.172 | 0.003 | 3.788 | 7.92 | 53.95 | 0.00 | 0.00 | 0.00 | 38.12 |
| 1998 | 163 | 23 | 1 | 1090.063 | 32.672 | D | 4.703 | 4.703 | 0.000 | 2.507 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 164 | 23 | 1 | 1090.063 | 32.672 | D | 4.666 | 4.666 | 0.000 | 2.409 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 165 | 23 | 420 | 1119.289 | 21.236 | D | 4.886 | 4.885 | 0.000 | 2.999 | 15.22 | 55.01 | 0.00 | 0.00 | 0.00 | 29.37 |
| 1998 | 166 | 23 | 420 | 1119.289 | 21.236 | D | 4.745 | 4.742 | 0.003 | 2.611 | 13.64 | 49.26 | 0.00 | 0.00 | 0.00 | 37.11 |
| 1998 | 167 | 23 | 1 | 1090.063 | 32.672 | D | 4.572 | 4.572 | 0.000 | 2.160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 168 | 23 | 1 | 1090.063 | 32.672 | D | 4.756 | 4.756 | 0.000 | 2.648 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 169 | 23 | 1 | 1090.063 | 32.672 | D | 4.673 | 4.673 | 0.000 | 2.428 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 170 | 23 | 1 | 1090.063 | 32.672 | D | 4.638 | 4.638 | 0.000 | 2.335 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 171 | 23 | 1 | 1090.063 | 32.672 | D | 4.635 | 4.635 | 0.000 | 2.328 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 172 | 23 | 100 | 1126.005 | 0.430 | D | 4.784 | 4.784 | 0.000 | 2.724 | 8.89 | 6.52 | 0.00 | 0.00 | 0.00 | 84.98 |
| 1998 | 173 | 23 | 1 | 1090.063 | 32.672 | D | 4.961 | 4.961 | 0.000 | 3.204 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 174 | 23 | 420 | 1119.289 | 21.236 | D | 4.965 | 4.962 | 0.003 | 3.207 | 16.79 | 32.74 | 0.00 | 0.00 | 0.00 | 50.54 |
| 1998 | 175 | 23 | 464 | 1112.439 | 29.719 | D | 5.325 | 5.325 | 0.000 | 4.219 | 22.44 | 42.49 | 0.00 | 0.00 | 0.00 | 35.07 |
| 1998 | 176 | 23 | 420 | 1119.289 | 21.236 | D | 4.930 | 4.924 | 0.006 | 3.104 | 12.91 | 42.82 | 0.00 | 0.00 | 0.00 | 44.26 |
| 1998 | 177 | 23 | 101 | 1124.139 | 9.843 | D | 4.852 | 4.844 | 0.009 | 2.885 | 15.82 | 53.21 | 0.00 | 0.00 | 0.00 | 30.97 |
| 1998 | 178 | 23 | 100 | 1126.005 | 0.430 | D | 4.649 | 4.649 | 0.000 | 2.364 | 19.23 | 42.48 | 0.00 | 0.00 | 0.00 | 38.40 |
| 1998 | 179 | 23 | 1 | 1090.063 | 32.672 | D | 4.530 | 4.530 | 0.000 | 2.049 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 180 | 23 | 1 | 1090.063 | 32.672 | D | 4.660 | 4.660 | 0.000 | 2.394 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 181 | 23 | 1 | 1090.063 | 32.672 | D | 5.875 | 5.875 | 0.000 | 5.825 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 182 | 23 | 372 | 1123.759 | 13.586 | D | 5.502 | 5.502 | 0.000 | 4.726 | 9.89 | 37.66 | 0.00 | 0.00 | 0.00 | 49.15 |
| 1998 | 183 | 23 | 1 | 1090.063 | 32.672 | D | 5.603 | 5.603 | 0.000 | 5.021 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 184 | 23 | 464 | 1112.439 | 29.719 | D | 7.707 | 7.707 | 0.000 | 11.853 | 19.11 | 65.56 | 0.00 | 0.00 | 0.00 | 14.67 |
| 1998 | 185 | 23 | 420 | 1119.289 | 21.236 | D | 6.342 | 6.342 | 0.000 | 7.258 | 33.44 | 29.47 | 0.00 | 0.00 | 0.00 | 30.89 |
| 1998 | 186 | 23 | 504 | 1096.327 | 41.124 | D | 5.533 | 5.532 | 0.001 | 4.813 | 23.19 | 47.43 | 0.00 | 0.00 | 0.00 | 29.37 |
| 1998 | 187 | 23 | 464 | 1112.439 | 29.719 | D | 5.980 | 5.958 | 0.022 | 6.075 | 20.81 | 61.58 | 0.00 | 0.00 | 0.00 | 17.61 |
| 1998 | 188 | 23 | 31 | 1116.536 | 23.118 | D | 5.803 | 5.803 | 0.000 | 5.609 | 61.97 | 18.88 | 0.00 | 0.00 | 0.00 | 15.96 |
| 1998 | 189 | 23 | 1 | 1090.063 | 32.672 | D | 5.728 | 5.728 | 0.000 | 5.387 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 190 | 23 | 1 | 1090.063 | 32.672 | D | 4.620 | 4.620 | 0.000 | 2.288 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 191 | 23 | 1 | 1090.063 | 32.672 | D | 4.800 | 4.800 | 0.000 | 2.769 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 192 | 23 | 464 | 1112.439 | 29.719 | D | 5.673 | 5.656 | 0.017 | 5.174 | 22.90 | 45.78 | 0.00 | 0.00 | 0.00 | 31.32 |
| 1998 | 193 | 23 | 504 | 1096.327 | 41.124 | D | 5.453 | 5.448 | 0.005 | 4.571 | 22.23 | 42.88 | 0.00 | 0.00 | 0.00 | 34.90 |
| 1998 | 194 | 23 | 464 | 1112.439 | 29.719 | D | 4.738 | 4.734 | 0.004 | 2.590 | 12.67 | 46.88 | 0.00 | 0.00 | 0.00 | 40.45 |
| 1998 | 195 | 23 | 504 | 1096.327 | 41.124 | D | 5.638 | 5.623 | 0.015 | 5.079 | 15.93 | 62.53 | 0.00 | 0.00 | 0.00 | 21.53 |
| 1998 | 196 | 23 | 1 | 1090.063 | 32.672 | D | 5.700 | 5.700 | 0.000 | 5.304 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 197 | 23 | 1 | 1090.063 | 32.672 | D | 5.163 | 5.163 | 0.000 | 3.762 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 198 | 23 | 1 | 1090.063 | 32.672 | D | 5.063 | 5.063 | 0.000 | 3.486 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 199 | 23 | 464 | 1112.439 | 29.719 | D | 5.682 | 5.680 | 0.002 | 5.247 | 16.64 | 48.18 | 0.00 | 0.00 | 0.00 | 35.29 |
| 1998 | 200 | 23 | 4 | 1109.871 | 31.743 | D | 4.941 | 4.913 | 0.028 | 3.074 | 18.71 | 38.31 | 0.00 | 0.00 | 0.00 | 42.97 |
| 1998 | 201 | 23 | 101 | 1124.139 | 9.843 | D | 4.960 | 4.879 | 0.081 | 2.982 | 18.16 | 53.33 | 0.00 | 0.00 | 0.00 | 28.51 |
| 1998 | 202 | 23 | 1 | 1090.063 | 32.672 | D | 4.423 | 4.423 | 0.000 | 1.771 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 203 | 23 | 1 | 1090.063 | 32.672 | D | 4.498 | 4.498 | 0.000 | 1.968 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 204 | 23 | 1 | 1090.063 | 32.672 | D | 5.068 | 5.068 | 0.000 | 3.499 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 205 | 23 | 1 | 1090.063 | 32.672 | D | 4.872 | 4.872 | 0.000 | 2.962 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 206 | 23 | 1 | 1090.063 | 32.672 | D | 5.478 | 5.478 | 0.000 | 4.657 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 207 | 23 | 311 | 1125.767 | -1.263 | D | 4.411 | 4.411 | 0.000 | 1.741 | 4.62 | 22.19 | 0.00 | 0.00 | 0.00 | 72.26 |
| 1998 | 208 | 23 | 372 | 1123.759 | 13.586 | D | 4.554 | 4.554 | 0.000 | 2.114 | 1.33 | 30.82 | 0.00 | 0.00 | 0.00 | 67.82 |
| 1998 | 209 | 23 | 1 | 1090.063 | 32.672 | D | 4.542 | 4.542 | 0.000 | 2.081 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 210 | 23 | 1 | 1090.063 | 32.672 | D | 4.605 | 4.605 | 0.000 | 2.247 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 211 | 23 | 1 | 1090.063 | 32.672 | D | 4.934 | 4.934 | 0.000 | 3.131 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 212 | 23 | 464 | 1112.439 | 29.719 | D | 4.711 | 4.711 | 0.000 | 2.529 | 14.32 | 40.08 | 0.00 | 0.00 | 0.00 | 45.80 |
| 1998 | 213 | 23 | 372 | 1123.759 | 13.586 | D | 4.727 | 4.727 | 0.000 | 2.572 | 20.52 | 32.74 | 0.00 | 0.00 | 0.00 | 46.48 |
| 1998 | 214 | 23 | 100 | 1126.005 | 0.430 | D | 4.393 | 4.391 | 0.002 | 1.687 | 11.34 | 33.51 | 0.00 | 0.00 | 0.00 | 55.14 |
| 1998 | 215 | 23 | 100 | 1126.005 | 0.430 | D | 4.518 | 4.518 | 0.000 | 2.019 | 4.63 | 26.33 | 0.00 | 0.00 | 0.00 | 70.05 |
| 1998 | 216 | 23 | 1 | 1090.063 | 32.672 | D | 4.504 | 4.504 | 0.000 | 1.983 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1998 217 23 | 1 | 1090.063 | 32.672 | D | 5.457 | 5.457 | 0.000 | 4.597 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 218 23 | 1 | 1090.063 | 32.672 | D | 4.844 | 4.844 | 0.000 | 2.887 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 219 23 | 1 | 1090.063 | 32.672 | D | 4.455 | 4.455 | 0.000 | 1.855 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 220 23 | 1 | 1090.063 | 32.672 | D | 4.555 | 4.555 | 0.000 | 2.116 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 221 23 | 100 | 1126.005 | 0.430 | D | 4.915 | 4.915 | 0.000 | 3.080 | 13.31 | 42.20 | 0.00 | 0.00 | 0.00 | 44.07 |
| 1998 222 23 | 100 | 1126.005 | 0.430 | D | 4.803 | 4.793 | 0.010 | 2.750 | 13.00 | 46.16 | 0.00 | 0.00 | 0.00 | 40.84 |
| 1998 223 23 | 100 | 1126.005 | 0.430 | D | 4.677 | 4.677 | 0.000 | 2.440 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.38 |
| 1998 224 23 | 1 | 1090.063 | 32.672 | D | 4.653 | 4.653 | 0.000 | 2.374 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 225 23 | 1 | 1090.063 | 32.672 | D | 4.590 | 4.590 | 0.000 | 2.209 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 226 23 | 1 | 1090.063 | 32.672 | D | 5.316 | 5.316 | 0.000 | 4.194 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 227 23 | 1 | 1090.063 | 32.672 | D | 4.631 | 4.631 | 0.000 | 2.315 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 228 23 | 1 | 1090.063 | 32.672 | D | 4.710 | 4.710 | 0.000 | 2.528 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 229 23 | 372 | 1123.759 | 13.586 | D | 4.647 | 4.641 | 0.006 | 2.343 | 13.96 | 43.49 | 0.00 | 0.00 | 0.00 | 42.53 |
| 1998 230 23 | 372 | 1123.759 | 13.586 | D | 4.723 | 4.695 | 0.028 | 2.485 | 13.24 | 40.23 | 0.00 | 0.00 | 0.00 | 46.53 |
| 1998 231 23 | 101 | 1124.139 | 9.843 | D | 4.960 | 4.893 | 0.067 | 3.020 | 12.55 | 58.97 | 0.00 | 0.00 | 0.00 | 28.48 |
| 1998 232 23 | 101 | 1124.139 | 9.843 | D | 4.615 | 4.609 | 0.006 | 2.258 | 6.15 | 44.76 | 0.00 | 0.00 | 0.00 | 49.07 |
| 1998 233 23 | 464 | 1112.439 | 29.719 | D | 4.673 | 4.652 | 0.021 | 2.371 | 13.78 | 33.78 | 0.00 | 0.00 | 0.00 | 52.43 |
| 1998 234 23 | 101 | 1124.139 | 9.843 | D | 4.730 | 4.706 | 0.024 | 2.516 | 14.76 | 37.77 | 0.00 | 0.00 | 0.00 | 47.47 |
| 1998 235 23 | 372 | 1123.759 | 13.586 | D | 5.059 | 5.058 | 0.001 | 3.473 | 12.10 | 38.67 | 0.00 | 0.00 | 0.00 | 49.16 |
| 1998 236 23 | 372 | 1123.759 | 13.586 | D | 5.285 | 5.283 | 0.001 | 4.102 | 16.10 | 58.81 | 0.00 | 0.00 | 0.00 | 25.10 |
| 1998 237 23 | 1 | 1090.063 | 32.672 | D | 4.786 | 4.786 | 0.000 | 2.729 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 238 23 | 100 | 1126.005 | 0.430 | D | 5.044 | 5.044 | 0.000 | 3.432 | 6.11 | 57.78 | 0.00 | 0.00 | 0.00 | 36.12 |
| 1998 239 23 | 100 | 1126.005 | 0.430 | D | 4.587 | 4.587 | 0.000 | 2.201 | 4.48 | 47.01 | 0.00 | 0.00 | 0.00 | 50.94 |
| 1998 240 23 | 256 | 1117.517 | -18.599 | D | 4.503 | 4.503 | 0.000 | 1.980 | 5.84 | 49.72 | 0.00 | 0.00 | 0.00 | 44.57 |
| 1998 241 23 | 1 | 1090.063 | 32.672 | D | 5.260 | 5.260 | 0.000 | 4.036 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 242 23 | 1 | 1090.063 | 32.672 | D | 5.276 | 5.276 | 0.000 | 4.081 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 243 23 | 1 | 1090.063 | 32.672 | D | 4.881 | 4.881 | 0.000 | 2.987 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 244 23 | 1 | 1090.063 | 32.672 | D | 4.974 | 4.974 | 0.000 | 3.242 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 245 23 | 1 | 1090.063 | 32.672 | D | 4.731 | 4.731 | 0.000 | 2.581 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 246 23 | 1 | 1090.063 | 32.672 | D | 4.882 | 4.882 | 0.000 | 2.991 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 247 23 | 1 | 1090.063 | 32.672 | D | 4.628 | 4.628 | 0.000 | 2.308 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 248 23 | 1 | 1090.063 | 32.672 | D | 4.751 | 4.751 | 0.000 | 2.637 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 249 23 | 1 | 1090.063 | 32.672 | D | 4.764 | 4.764 | 0.000 | 2.671 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 250 23 | 1 | 1090.063 | 32.672 | D | 4.614 | 4.614 | 0.000 | 2.273 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 251 23 | 1 | 1090.063 | 32.672 | D | 4.526 | 4.526 | 0.000 | 2.040 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 252 23 | 1 | 1090.063 | 32.672 | D | 4.470 | 4.470 | 0.000 | 1.893 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 253 23 | 372 | 1123.759 | 13.586 | D | 4.856 | 4.846 | 0.010 | 2.892 | 7.70 | 41.81 | 0.00 | 0.00 | 0.00 | 50.48 |
| 1998 254 23 | 372 | 1123.759 | 13.586 | D | 4.793 | 4.791 | 0.002 | 2.744 | 5.44 | 54.24 | 0.00 | 0.00 | 0.00 | 40.35 |
| 1998 255 23 | 1 | 1090.063 | 32.672 | D | 4.831 | 4.831 | 0.000 | 2.850 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 256 23 | 1 | 1090.063 | 32.672 | D | 5.091 | 5.091 | 0.000 | 3.562 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 257 23 | 256 | 1117.517 | -18.599 | D | 4.686 | 4.686 | 0.000 | 2.461 | 5.87 | 55.01 | 0.00 | 0.00 | 0.00 | 38.45 |
| 1998 258 23 | 100 | 1126.005 | 0.430 | D | 4.344 | 4.343 | 0.001 | 1.565 | 11.34 | 31.02 | 0.00 | 0.00 | 0.00 | 57.60 |
| 1998 259 23 | 101 | 1124.139 | 9.843 | D | 4.762 | 4.756 | 0.006 | 2.650 | 14.16 | 50.69 | 0.00 | 0.00 | 0.00 | 35.15 |
| 1998 260 23 | 1 | 1090.063 | 32.672 | D | 5.124 | 5.124 | 0.000 | 3.655 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 261 23 | 420 | 1119.289 | 21.236 | D | 6.369 | 6.369 | 0.000 | 7.343 | 8.32 | 45.67 | 0.00 | 0.00 | 0.00 | 53.37 |
| 1998 262 23 | 1 | 1090.063 | 32.672 | D | 4.678 | 4.678 | 0.000 | 2.441 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 263 23 | 372 | 1123.759 | 13.586 | D | 5.188 | 5.076 | 0.112 | 3.522 | 7.14 | 53.08 | 0.00 | 0.00 | 0.00 | 39.78 |
| 1998 264 23 | 311 | 1125.767 | -1.263 | D | 5.214 | 5.212 | 0.003 | 3.900 | 8.69 | 70.29 | 0.00 | 0.00 | 0.00 | 20.99 |
| 1998 265 23 | 1 | 1090.063 | 32.672 | D | 5.064 | 5.064 | 0.000 | 3.490 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 266 23 | 372 | 1123.759 | 13.586 | D | 4.971 | 4.962 | 0.009 | 3.209 | 6.02 | 51.61 | 0.00 | 0.00 | 0.00 | 42.38 |
| 1998 267 23 | 256 | 1117.517 | -18.599 | D | 6.252 | 6.252 | 0.001 | 6.976 | 12.07 | 60.30 | 0.00 | 0.00 | 0.00 | 27.46 |
| 1998 268 23 | 1 | 1090.063 | 32.672 | D | 5.078 | 5.078 | 0.000 | 3.528 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 269 23 | 1 | 1090.063 | 32.672 | D | 4.727 | 4.727 | 0.000 | 2.571 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 270 23 | 100 | 1126.005 | 0.430 | D | 4.705 | 4.701 | 0.004 | 2.503 | 4.74 | 42.60 | 0.00 | 0.00 | 0.00 | 52.65 |
| 1998 271 23 | 1 | 1090.063 | 32.672 | D | 4.673 | 4.673 | 0.000 | 2.428 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 272 23 | 1 | 1090.063 | 32.672 | D | 5.525 | 5.525 | 0.000 | 4.792 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 273 23 | 1 | 1090.063 | 32.672 | D | 4.835 | 4.835 | 0.000 | 2.863 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 274 23 | 311 | 1125.767 | -1.263 | D | 5.000 | 5.000 | 0.000 | 3.312 | 7.70 | 44.67 | 0.00 | 0.00 | 0.00 | 51.65 |
| 1998 275 23 | 1 | 1090.063 | 32.672 | D | 5.108 | 5.108 | 0.000 | 3.611 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 276 23 | 1 | 1090.063 | 32.672 | D | 5.310 | 5.310 | 0.000 | 4.177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 277 23 | 1 | 1090.063 | 32.672 | D | 4.939 | 4.939 | 0.000 | 3.145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 278 23 | 1 | 1090.063 | 32.672 | D | 4.982 | 4.982 | 0.000 | 3.262 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 279 23 | 1 | 1090.063 | 32.672 | D | 5.470 | 5.470 | 0.000 | 4.635 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 280 23 | 1 | 1090.063 | 32.672 | D | 5.242 | 5.242 | 0.000 | 3.985 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 281 23 | 1 | 1090.063 | 32.672 | D | 5.537 | 5.537 | 0.000 | 4.827 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 282 23 | 1 | 1090.063 | 32.672 | D | 6.451 | 6.451 | 0.000 | 7.604 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 283 23 | 1 | 1090.063 | 32.672 | D | 6.672 | 6.672 | 0.000 | 8.314 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 284 23 | 1 | 1090.063 | 32.672 | D | 6.090 | 6.090 | 0.000 | 6.476 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 285 23 | 1 | 1090.063 | 32.672 | D | 5.727 | 5.727 | 0.000 | 5.383 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 286 23 | 1 | 1090.063 | 32.672 | D | 6.850 | 6.850 | 0.000 | 8.897 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 287 23 | 1 | 1090.063 | 32.672 | D | 5.188 | 5.188 | 0.000 | 3.834 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 288 23 | 1 | 1090.063 | 32.672 | D | 4.977 | 4.977 | 0.000 | 3.249 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 289 23 | 464 | 1112.439 | 29.719 | D | 6.647 | 6.638 | 0.009 | 8.204 | 12.31 | 61.50 | 0.00 | 0.00 | 0.00 | 26.17 |
| 1998 290 23 | 1 | 1090.063 | 32.672 | D | 6.583 | 6.583 | 0.000 | 8.026 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 291 23 | 372 | 1123.759 | 13.586 | D | 5.770 | 5.770 | 0.000 | 5.511 | 6.63 | 48.06 | 0.00 | 0.00 | 0.00 | 45.21 |
| 1998 292 23 | 420 | 1119.289 | 21.236 | D | 5.835 | 5.743 | 0.092 | 5.432 | 7.28 | 39.10 | 0.00 | 0.00 | 0.00 | 53.62 |
| 1998 293 23 | 170 | 1004.814 | 42.629 | D | 5.899 | 5.877 | 0.022 | 5.832 | 9.97 | 74.68 | 0.00 | 0.00 | 0.00 | 15.35 |
| 1998 294 23 | 1 | 1090.063 | 32.672 | D | 7.759 | 7.759 | 0.000 | 12.044 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 295 23 | 1 | 1090.063 | 32.672 | D | 7.225 | 7.225 | 0.000 | 10.159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 296 23 | 1 | 1090.063 | 32.672 | D | 9.128 | 9.128 | 0.000 | 17.355 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 297 23 | 1 | 1090.063 | 32.672 | D | 8.060 | 8.060 | 0.000 | 13.148 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 298 23 | 1 | 1090.063 | 32.672 | D | 8.091 | 8.091 | 0.000 | 13.263 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 299 23 | 1 | 1090.063 | 32.672 | D | 8.001 | 8.001 | 0.000 | 12.928 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 300 23 | 1 | 1090.063 | 32.672 | D | 7.190 | 7.190 | 0.000 | 10.039 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 301 23 | 1 | 1090.063 | 32.672 | D | 5.566 | 5.566 | 0.000 | 4.913 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 302 23 | 1 | 1090.063 | 32.672 | D | 6.520 | 6.520 | 0.000 | 7.824 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 303 23 | 1 | 1090.063 | 32.672 | D | 8.002 | 8.002 | 0.000 | 12.932 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 304 23 | 1 | 1090.063 | 32.672 | D | 8.195 | 8.195 | 0.000 | 13.656 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 305 23 | 1 | 1090.063 | 32.672 | D | 8.761 | 8.761 | 0.000 | 15.860 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 306 23 | 1 | 1090.063 | 32.672 | D | 9.184 | 9.184 | 0.000 | 17.590 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 307 23 | 1 | 1090.063 | 32.672 | D | 8.308 | 8.308 | 0.000 | 14.085 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 308 23 | 1 | 1090.063 | 32.672 | D | 9.071 | 9.071 | 0.000 | 17.121 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 309 23 | 1 | 1090.063 | 32.672 | D | 7.395 | 7.395 | 0.000 | 10.748 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 310 23 | 1 | 1090.063 | 32.672 | D | 7.723 | 7.723 | 0.000 | 11.912 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 311 23 | 216 | 1094.329 | -25.642 | D | 7.315 | 7.213 | 0.102 | 10.119 | 14.63 | 73.21 | 0.00 | 0.00 | 0.00 | 12.16 |
| 1998 312 23 | 189 | 1040.896 | -28.418 | D | 7.261 | 7.255 | 0.005 | 10.263 | 11.87 | 78.07 | 0.00 | 0.00 | 0.00 | 10.08 |
| 1998 313 23 | 372 | 1123.759 | 13.586 | D | 6.602 | 6.597 | 0.005 | 8.071 | 13.92 | 67.11 | 0.00 | 0.00 | 0.00 | 18.96 |
| 1998 314 23 | 170 | 1004.814 | 42.629 | D | 6.738 | 6.738 | 0.000 | 8.527 | 2.22 | 95.18 | 0.00 | 0.00 | 0.00 | 0.59 |
| 1998 315 23 | 170 | 1004.814 | 42.629 | D | 8.052 | 8.050 | 0.002 | 13.111 | 11.34 | 72.14 | 0.00 | 0.00 | 0.00 | 16.48 |
| 1998 316 23 | 1 | 1090.063 | 32.672 | D | 8.121 | 8.121 | 0.000 | 13.375 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 317 23 | 1 | 1090.063 | 32.672 | D | 8.120 | 8.120 | 0.000 | 13.372 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 318 23 | 1 | 1090.063 | 32.672 | D | 9.240 | 9.240 | 0.000 | 17.824 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 319 23 | 1 | 1090.063 | 32.672 | D | 8.189 | 8.189 | 0.000 | 13.635 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 320 23 | 1 | 1090.063 | 32.672 | D | 7.173 | 7.173 | 0.000 | 9.980 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 321 23 | 1 | 1090.063 | 32.672 | D | 6.353 | 6.353 | 0.000 | 7.292 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1998 | 322 | 23 | 31 | 1116.536 | 23.118 | D | 5.601 | 5.601 | 0.000 | 5.015 | 1.57 | 71.56 | 0.00 | 0.00 | 0.00 | 0.25 |
| 1998 | 323 | 23 | 1 | 1090.063 | 32.672 | D | 8.385 | 8.385 | 0.000 | 14.382 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 324 | 23 | 1 | 1090.063 | 32.672 | D | 8.438 | 8.438 | 0.000 | 14.585 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 325 | 23 | 1 | 1090.063 | 32.672 | D | 6.434 | 6.434 | 0.000 | 7.549 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 326 | 23 | 1 | 1090.063 | 32.672 | D | 7.213 | 7.213 | 0.000 | 10.118 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 327 | 23 | 1 | 1090.063 | 32.672 | D | 7.230 | 7.230 | 0.000 | 10.175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 328 | 23 | 1 | 1090.063 | 32.672 | D | 6.105 | 6.105 | 0.000 | 6.522 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 329 | 23 | 1 | 1090.063 | 32.672 | D | 7.938 | 7.938 | 0.000 | 12.698 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 330 | 23 | 1 | 1090.063 | 32.672 | D | 6.421 | 6.421 | 0.000 | 7.509 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 331 | 23 | 1 | 1090.063 | 32.672 | D | 7.217 | 7.217 | 0.000 | 10.132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 332 | 23 | 1 | 1090.063 | 32.672 | D | 7.381 | 7.381 | 0.000 | 10.701 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 333 | 23 | 1 | 1090.063 | 32.672 | D | 7.208 | 7.208 | 0.000 | 10.101 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 334 | 23 | 1 | 1090.063 | 32.672 | D | 7.632 | 7.632 | 0.000 | 11.586 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 335 | 23 | 1 | 1090.063 | 32.672 | D | 6.357 | 6.357 | 0.000 | 7.305 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 336 | 23 | 1 | 1090.063 | 32.672 | D | 5.825 | 5.825 | 0.000 | 5.676 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 337 | 23 | 1 | 1090.063 | 32.672 | D | 5.943 | 5.943 | 0.000 | 6.031 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 338 | 23 | 1 | 1090.063 | 32.672 | D | 4.905 | 4.905 | 0.000 | 3.052 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 339 | 23 | 1 | 1090.063 | 32.672 | D | 5.689 | 5.689 | 0.000 | 5.273 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 340 | 23 | 1 | 1090.063 | 32.672 | D | 4.973 | 4.973 | 0.000 | 3.238 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 341 | 23 | 1 | 1090.063 | 32.672 | D | 7.008 | 7.008 | 0.000 | 9.424 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 342 | 23 | 1 | 1090.063 | 32.672 | D | 5.710 | 5.710 | 0.000 | 5.335 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 343 | 23 | 1 | 1090.063 | 32.672 | D | 7.214 | 7.214 | 0.000 | 10.123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 344 | 23 | 1 | 1090.063 | 32.672 | D | 7.803 | 7.803 | 0.000 | 12.204 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 345 | 23 | 1 | 1090.063 | 32.672 | D | 8.932 | 8.932 | 0.000 | 16.550 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 346 | 23 | 1 | 1090.063 | 32.672 | D | 9.075 | 9.075 | 0.000 | 17.134 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 347 | 23 | 1 | 1090.063 | 32.672 | D | 8.012 | 8.012 | 0.000 | 12.969 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 348 | 23 | 1 | 1090.063 | 32.672 | D | 4.776 | 4.776 | 0.000 | 2.704 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 349 | 23 | 1 | 1090.063 | 32.672 | D | 7.953 | 7.953 | 0.000 | 12.752 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 350 | 23 | 1 | 1090.063 | 32.672 | D | 8.038 | 8.038 | 0.000 | 13.065 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 351 | 23 | 1 | 1090.063 | 32.672 | D | 4.853 | 4.853 | 0.000 | 2.911 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.39 |
| 1998 | 352 | 23 | 504 | 1096.327 | 41.124 | D | 4.456 | 4.425 | 0.031 | 1.777 | 3.57 | 34.03 | 0.00 | 0.00 | 0.00 | 73.92 |
| 1998 | 353 | 23 | 158 | 1008.817 | 21.229 | D | 4.260 | 4.188 | 0.072 | 1.169 | 2.17 | 23.91 | 0.00 | 0.00 | 0.00 | 64.24 |
| 1998 | 354 | 23 | 665 | 1074.296 | 36.865 | D | 4.291 | 4.227 | 0.064 | 1.267 | 3.18 | 32.58 | 0.00 | 0.00 | 0.00 | 53.19 |
| 1998 | 355 | 23 | 665 | 1074.296 | 36.865 | D | 5.732 | 5.722 | 0.010 | 5.369 | 4.87 | 41.94 | 0.00 | 0.00 | 0.00 | 29.70 |
| 1998 | 356 | 23 | 504 | 1096.327 | 41.124 | D | 5.090 | 5.087 | 0.004 | 3.551 | 7.30 | 62.96 | 0.00 | 0.00 | 0.00 | 25.98 |
| 1998 | 357 | 23 | 504 | 1096.327 | 41.124 | D | 6.002 | 6.002 | 0.000 | 6.209 | 11.01 | 63.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 358 | 23 | 1 | 1090.063 | 32.672 | D | 7.586 | 7.586 | 0.000 | 11.420 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 359 | 23 | 1 | 1090.063 | 32.672 | D | 8.393 | 8.393 | 0.000 | 14.413 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 360 | 23 | 1 | 1090.063 | 32.672 | D | 5.661 | 5.661 | 0.000 | 5.191 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 361 | 23 | 1 | 1090.063 | 32.672 | D | 7.855 | 7.855 | 0.000 | 12.393 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 362 | 23 | 1 | 1090.063 | 32.672 | D | 5.476 | 5.476 | 0.000 | 4.652 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 363 | 23 | 1 | 1090.063 | 32.672 | D | 7.538 | 7.538 | 0.000 | 11.252 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1998 | 364 | 23 | 4 | 1109.871 | 31.743 | D | 7.319 | 7.319 | 0.000 | 10.483 | 0.91 | 82.86 | 0.00 | 0.00 | 0.00 | 6.87 |
| 1998 | 365 | 23 | 1 | 1090.063 | 32.672 | D | 6.223 | 6.223 | 0.000 | 6.887 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 1 | 23 | 464 | 1112.439 | 29.719 | D | 5.781 | 5.753 | 0.028 | 5.461 | 13.21 | 67.76 | 0.00 | 0.00 | 0.00 | 19.02 |
| 1999 | 2 | 23 | 4 | 1109.871 | 31.743 | D | 7.235 | 6.653 | 0.582 | 8.252 | 13.05 | 63.37 | 0.00 | 0.00 | 0.00 | 23.58 |
| 1999 | 3 | 23 | 513 | 1072.086 | 36.423 | D | 7.828 | 7.403 | 0.425 | 10.776 | 10.36 | 72.17 | 0.00 | 0.00 | 0.00 | 17.47 |
| 1999 | 4 | 23 | 503 | 1096.650 | 38.900 | D | 7.591 | 7.403 | 0.189 | 10.776 | 12.06 | 73.41 | 0.00 | 0.00 | 0.00 | 14.53 |
| 1999 | 5 | 23 | 504 | 1096.327 | 41.124 | D | 8.450 | 8.435 | 0.015 | 14.574 | 13.98 | 77.32 | 0.00 | 0.00 | 0.00 | 8.70 |
| 1999 | 6 | 23 | 665 | 1074.296 | 36.865 | D | 7.594 | 7.590 | 0.004 | 11.435 | 16.25 | 74.35 | 0.00 | 0.00 | 0.00 | 9.35 |
| 1999 | 7 | 23 | 98 | 1096.696 | -25.207 | D | 7.924 | 7.924 | 0.000 | 12.645 | 18.68 | 75.55 | 0.00 | 0.00 | 0.00 | 7.06 |
| 1999 | 8 | 23 | 1 | 1090.063 | 32.672 | D | 6.642 | 6.642 | 0.000 | 8.214 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 9 | 23 | 1 | 1090.063 | 32.672 | D | 8.189 | 8.189 | 0.000 | 13.635 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 10 | 23 | 1 | 1090.063 | 32.672 | D | 9.240 | 9.240 | 0.000 | 17.824 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 11 | 23 | 1 | 1090.063 | 32.672 | D | 8.736 | 8.736 | 0.000 | 15.758 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 12 | 23 | 1 | 1090.063 | 32.672 | D | 7.939 | 7.939 | 0.000 | 12.700 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 13 | 23 | 1 | 1090.063 | 32.672 | D | 6.599 | 6.599 | 0.000 | 8.076 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 14 | 23 | 1 | 1090.063 | 32.672 | D | 7.151 | 7.151 | 0.000 | 9.905 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 15 | 23 | 1 | 1090.063 | 32.672 | D | 6.018 | 6.018 | 0.000 | 6.258 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 16 | 23 | 1 | 1090.063 | 32.672 | D | 7.404 | 7.404 | 0.000 | 10.780 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 17 | 23 | 1 | 1090.063 | 32.672 | D | 8.103 | 8.103 | 0.000 | 13.311 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 18 | 23 | 1 | 1090.063 | 32.672 | D | 8.550 | 8.550 | 0.000 | 15.023 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 19 | 23 | 1 | 1090.063 | 32.672 | D | 8.669 | 8.669 | 0.000 | 15.492 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 20 | 23 | 1 | 1090.063 | 32.672 | D | 8.587 | 8.587 | 0.000 | 15.170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 21 | 23 | 1 | 1090.063 | 32.672 | D | 6.125 | 6.125 | 0.000 | 6.584 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 22 | 23 | 1 | 1090.063 | 32.672 | D | 8.252 | 8.252 | 0.000 | 13.871 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 23 | 23 | 508 | 1087.331 | 33.945 | D | 7.109 | 6.669 | 0.440 | 8.304 | 8.50 | 56.29 | 0.00 | 0.00 | 0.00 | 35.21 |
| 1999 | 24 | 23 | 513 | 1072.086 | 36.423 | D | 6.725 | 6.298 | 0.427 | 7.121 | 8.17 | 64.88 | 0.00 | 0.00 | 0.00 | 26.95 |
| 1999 | 25 | 23 | 504 | 1096.327 | 41.124 | D | 5.883 | 5.857 | 0.026 | 5.771 | 12.92 | 58.99 | 0.00 | 0.00 | 0.00 | 28.09 |
| 1999 | 26 | 23 | 1 | 1090.063 | 32.672 | D | 6.965 | 6.965 | 0.000 | 9.278 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 27 | 23 | 1 | 1090.063 | 32.672 | D | 5.544 | 5.544 | 0.000 | 4.849 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 28 | 23 | 1 | 1090.063 | 32.672 | D | 7.500 | 7.500 | 0.000 | 11.117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 29 | 23 | 1 | 1090.063 | 32.672 | D | 7.070 | 7.070 | 0.000 | 9.631 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 30 | 23 | 1 | 1090.063 | 32.672 | D | 7.787 | 7.787 | 0.000 | 12.143 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 31 | 23 | 1 | 1090.063 | 32.672 | D | 7.052 | 7.052 | 0.000 | 9.569 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 32 | 23 | 1 | 1090.063 | 32.672 | D | 5.504 | 5.504 | 0.000 | 4.733 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 33 | 23 | 1 | 1090.063 | 32.672 | D | 6.010 | 6.010 | 0.000 | 6.231 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 34 | 23 | 1 | 1090.063 | 32.672 | D | 6.111 | 6.111 | 0.000 | 6.542 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 35 | 23 | 1 | 1090.063 | 32.672 | D | 7.068 | 7.068 | 0.000 | 9.626 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 36 | 23 | 1 | 1090.063 | 32.672 | D | 7.345 | 7.345 | 0.000 | 10.573 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 37 | 23 | 1 | 1090.063 | 32.672 | D | 7.309 | 7.309 | 0.000 | 10.448 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 38 | 23 | 1 | 1090.063 | 32.672 | D | 6.976 | 6.976 | 0.000 | 9.314 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 39 | 23 | 1 | 1090.063 | 32.672 | D | 7.293 | 7.293 | 0.000 | 10.393 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 40 | 23 | 1 | 1090.063 | 32.672 | D | 6.006 | 6.006 | 0.000 | 6.220 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 41 | 23 | 1 | 1090.063 | 32.672 | D | 5.811 | 5.811 | 0.000 | 5.634 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 42 | 23 | 1 | 1090.063 | 32.672 | D | 5.226 | 5.226 | 0.000 | 3.940 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 43 | 23 | 1 | 1090.063 | 32.672 | D | 4.318 | 4.318 | 0.000 | 1.501 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 44 | 23 | 1 | 1090.063 | 32.672 | D | 5.183 | 5.183 | 0.000 | 3.820 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 45 | 23 | 1 | 1090.063 | 32.672 | D | 5.226 | 5.226 | 0.000 | 3.940 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 46 | 23 | 1 | 1090.063 | 32.672 | D | 5.288 | 5.288 | 0.000 | 4.115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 47 | 23 | 1 | 1090.063 | 32.672 | D | 7.491 | 7.491 | 0.000 | 11.085 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 48 | 23 | 1 | 1090.063 | 32.672 | D | 6.788 | 6.788 | 0.000 | 8.692 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 49 | 23 | 1 | 1090.063 | 32.672 | D | 7.357 | 7.357 | 0.000 | 10.616 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 50 | 23 | 1 | 1090.063 | 32.672 | D | 5.378 | 5.378 | 0.000 | 4.369 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 51 | 23 | 1 | 1090.063 | 32.672 | D | 6.562 | 6.562 | 0.000 | 7.957 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 52 | 23 | 1 | 1090.063 | 32.672 | D | 6.172 | 6.172 | 0.000 | 6.729 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 53 | 23 | 1 | 1090.063 | 32.672 | D | 7.466 | 7.466 | 0.000 | 10.998 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 54 | 23 | 1 | 1090.063 | 32.672 | D | 7.356 | 7.356 | 0.000 | 10.614 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 55 | 23 | 1 | 1090.063 | 32.672 | D | 8.608 | 8.608 | 0.000 | 15.249 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 56 | 23 | 1 | 1090.063 | 32.672 | D | 6.602 | 6.602 | 0.000 | 8.087 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 57 | 23 | 1 | 1090.063 | 32.672 | D | 5.679 | 5.679 | 0.000 | 5.244 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1999 | 58 | 23 | 1 | 1090.063 | 32.672 | D | 8.221 | 8.221 | 0.000 | 13.755 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

--- Number of days with Delta-Deciview => 0.50: 1
--- Number of days with Delta-Deciview => 1.00: 0

--- Largest Delta-Deciview = 0.582

**********

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Run-Length VISIBILITY

VISIB B _SN_F

(deciview)

| RECEPTOR | COORDINATES (km) | | TYPE | DV(Total) | DV(BKG) | DELTA DV | F(RH) |
|---|---|---|---|---|---|---|---|
| 499 | 1100.753 | 35.721 | D | 5.883 | 5.873 | 0.010 | 5.819 |

--- Number of recs with Delta-Deciview > 0.10: 0
--- Largest Delta-Deciview = 0.010

**********

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SUMMARY SECTION

VISIB B _SN_F

(1/Mega-m)

| RECEPTOR | COORDINATES (km) | | TYPE | PEAK (YEAR,DAY,ENDING TIME) | FOR RANK | FOR AVERAGE PERIOD |
|---|---|---|---|---|---|---|
| 104 | 1079.644 | -13.861 | DISCRETE | 2.5335E+01 (1998,300,2300) | RANK 1 | 24 HOUR |
| 1 | 1090.063 | 32.672 | DISCRETE | 2.5195E+01 (1998,318,2300) | RANK 2 | 24 HOUR |
| 104 | 1079.644 | -13.861 | DISCRETE | 2.5195E+01 (1998,317,2300) | RANK 3 | 24 HOUR |

```
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 Run Title:
    BP Cherry Point Refinery
    Ferndale, WA
    Class I Deposition

 ---------------------------------------------------------------------------------

 INPUT GROUP: 1 -- General run control parameters
 --------------

      Option to run all periods found
      in the met. file(s)   (METRUN)        Default: 0   ! METRUN =   1  !

          METRUN = 0 - Run period explicitly defined below
          METRUN = 1 - Run all periods in CALPUFF data file(s)

      Starting date:     Year  (ISYR) --    No default   ! ISYR  =  1998   !
      (used only if      Month (ISMO) --    No default   ! ISMO  =  0    !
       METRUN = 0)       Day   (ISDY) --    No default   ! ISDY  =  0    !
                         Hour  (ISHR) --    No default   ! ISHR  =  0    !

      Number of hours to process (NHRS) -- No default   ! NHRS  =  0  !

      Process every hour of data?(NREP) -- Default: 1   ! NREP  =  1  !
       (1 = every hour processed,
        2 = every 2nd hour processed,
        5 = every 5th hour processed, etc.)

 Species & Concentration/Deposition Information
 ----------------------------------------------

       Species to process (ASPEC)        -- No default   ! ASPEC = S  !
       (ASPEC = VISIB for visibility processing)

       Layer/deposition code (ILAYER)    -- Default: 1   ! ILAYER = -3  !
         '1'  for CALPUFF concentrations,
         '-1' for dry deposition fluxes,
         '-2' for wet deposition fluxes,
         '-3' for wet+dry deposition fluxes.

       Scaling factors of the form:      -- Defaults:    ! A =  0.0    !
            X(new) = X(old) * A + B          A = 0.0    ! B =  0.0    !
         (NOT applied if A = B = 0.0)        B = 0.0

       Add Hourly Background Concentrations/Fluxes?
                                 (LBACK)  -- Default: F   ! LBACK =  F !

 Receptor information
 --------------------

   Gridded receptors processed?     (LG) -- Default: F   ! LG  = F  !
   Discrete receptors processed?    (LD) -- Default: F   ! LD  = T  !
   CTSG Complex terrain receptors processed?
                                   (LCT) -- Default: F   ! LCT = F  !

 --Report results by DISCRETE receptor RING?
   (only used when LD = T)      (LDRING) -- Default: F   ! LDRING = F  !

 --Select range of DISCRETE receptors (only used when LD = T):

   Select ALL DISCRETE receptors by setting NDRECP flag to -1;
                                 OR
```

```
 Select SPECIFIC DISCRETE receptors by entering a flag (0,1) for each
    0 = discrete receptor not processed
    1 = discrete receptor processed
 using repeated value notation to select blocks of receptors:
    23*1, 15*0, 12*1
 Flag for all receptors after the last one assigned is set to 0
 (NDRECP) -- Default: -1
! NDRECP = 1550*0, 221*1  !


--Select range of GRIDDED receptors (only used when LG = T):

       X index of LL corner (IBGRID) -- Default: -1      ! IBGRID = -1  !
           (-1 OR 1 <= IBGRID <= NX)

       Y index of LL corner (JBGRID) -- Default: -1      ! JBGRID = -1  !
           (-1 OR 1 <= JBGRID <= NY)

       X index of UR corner (IEGRID) -- Default: -1      ! IEGRID = -1  !
           (-1 OR 1 <= IEGRID <= NX)

       Y index of UR corner (JEGRID) -- Default: -1      ! JEGRID = -1  !
           (-1 OR 1 <= JEGRID <= NY)

  Note: Entire grid is processed if IBGRID=JBGRID=IEGRID=JEGRID=-1


--Specific gridded receptors can also be excluded from CALPOST
  processing by filling a processing grid array with 0s and 1s.  If the
  processing flag for receptor index (i,j) is 1 (ON), that receptor
  will be processed if it lies within the range delineated by IBGRID,
  JBGRID,IEGRID,JEGRID and if LG=T. If it is 0 (OFF), it will not be
  processed in the run.  By default, all array values are set to 1 (ON).

  Number of gridded receptor rows provided in Subgroup (1a) to
  identify specific gridded receptors to process
                          (NGONOFF) -- Default: 0       ! NGONOFF =  0  !

!END!


--------------
Subgroup (1a) -- Specific gridded receptors included/excluded
--------------

    Specific gridded receptors are excluded from CALPOST processing
    by filling a processing grid array with 0s and 1s.  A total of
    NGONOFF lines are read here.  Each line corresponds to one 'row'
    in the sampling grid, starting with the NORTHERNMOST row that
    contains receptors that you wish to exclude, and finishing with
    row 1 to the SOUTH (no intervening rows may be skipped).  Within
    a row, each receptor position is assigned either a 0 or 1,
    starting with the westernmost receptor.
       0 = gridded receptor not processed
       1 = gridded receptor processed

    Repeated value notation may be used to select blocks of receptors:
       23*1, 15*0, 12*1

    Because all values are initially set to 1, any receptors north of
    the first row entered, or east of the last value provided in a row,
    remain ON.

    (NGXRECP) -- Default: 1


 ------------------------------------------------------------------------------

 INPUT GROUP: 2 -- Visibility Parameters (ASPEC = VISIB)
 --------------
```

```
    Maximum relative humidity (%) used in particle growth curve
                              (RHMAX) -- Default: 98   ! RHMAX  = 98.0 !

    Modeled species to be included in computing the light extinction
     Include SULFATE?           (LVSO4) -- Default: T   ! LVSO4  = T  !
     Include NITRATE?           (LVNO3) -- Default: T   ! LVNO3  = T  !
     Include ORGANIC CARBON?    (LVOC)  -- Default: T   ! LVOC   = F  !
     Include COARSE PARTICLES?  (LVPMC) -- Default: T   ! LVPMC  = F  !
     Include FINE PARTICLES?    (LVPMF) -- Default: T   ! LVPMF  = T  !
     Include ELEMENTAL CARBON?  (LVEC)  -- Default: T   ! LVEC   = F  !

    And, when ranking for TOP-N, TOP-50, and Exceedance tables,
     Include BACKGROUND?        (LVBK)  -- Default: T   ! LVBK   = T  !

    Species name used for particulates in MODEL.DAT file
                  COARSE    (SPECPMC) -- Default: PMC ! SPECPMC = EC !
                  FINE      (SPECPMF) -- Default: PMF ! SPECPMF = PM10 !

Extinction Efficiency (1/Mm per ug/m**3)
----------------------------------------
    MODELED particulate species:
              PM  COARSE      (EEPMC) -- Default: 0.6 ! EEPMC  = 0.6 !
              PM  FINE        (EEPMF) -- Default: 1.0 ! EEPMF  = 10.0 !
    BACKGROUND particulate species:
              PM  COARSE    (EEPMCBK) -- Default: 0.6 ! EEPMCBK = 0.6 !
    Other species:
             AMMONIUM SULFATE (EESO4) -- Default: 3.0 ! EESO4  = 3.0 !
             AMMONIUM NITRATE (EENO3) -- Default: 3.0 ! EENO3  = 3.0 !
             ORGANIC CARBON   (EEOC)  -- Default: 4.0 ! EEOC   = 4.0 !
             SOIL             (EESOIL)-- Default: 1.0 ! EESOIL = 1.0 !
             ELEMENTAL CARBON (EEEC)  -- Default: 10. ! EEEC   = 10.0 !

Background Extinction Computation
---------------------------------

    Method used for background light extinction
                              (MVISBK) -- Default: 6   ! MVISBK =  2  !

         1 =  Supply single light extinction and hygroscopic fraction
              - IWAQM (1993) RH adjustment applied to hygroscopic background
                and modeled sulfate and nitrate
         2 =  Compute extinction from speciated PM measurements (A)
              - Hourly RH adjustment applied to observed and modeled sulfate
                and nitrate
              - RH factor is capped at RHMAX
         3 =  Compute extinction from speciated PM measurements (B)
              - Hourly RH adjustment applied to observed and modeled sulfate
                and nitrate
              - Receptor-hour excluded if RH>RHMAX
              - Receptor-day excluded if fewer than 6 valid receptor-hours
         4 =  Read hourly transmissometer background extinction measurements
              - Hourly RH adjustment applied to modeled sulfate and nitrate
              - Hour excluded if measurement invalid (missing, interference,
                or large RH)
              - Receptor-hour excluded if RH>RHMAX
              - Receptor-day excluded if fewer than 6 valid receptor-hours
         5 =  Read hourly nephelometer background extinction measurements
              - Rayleigh extinction value (BEXTRAY) added to measurement
              - Hourly RH adjustment applied to modeled sulfate and nitrate
              - Hour excluded if measurement invalid (missing, interference,
                or large RH)
              - Receptor-hour excluded if RH>RHMAX
              - Receptor-day excluded if fewer than 6 valid receptor-hours
         6 =  Compute extinction from speciated PM measurements
              - FLAG RH adjustment factor applied to observed and
                modeled sulfate and nitrate

     Additional inputs used for MVISBK = 1:
     --------------------------------------
      Background light extinction (1/Mm)
                              (BEXTBK) -- No default   ! BEXTBK = 12.0 !
```

```
Percentage of particles affected by relative humidity
                          (RHFRAC) -- No default    ! RHFRAC = 0.0 !

Additional inputs used for MVISBK = 6:
--------------------------------------
 Extinction coefficients for hygroscopic species (modeled and
 background) are computed using a monthly RH adjustment factor
 in place of an hourly RH factor (VISB.DAT file is NOT needed).
 Enter the 12 monthly factors here (RHFAC).  Month 1 is January.

 (RHFAC)  -- No default      ! RHFAC = 4.4, 4.4, 4.1, 4.1,
                                       4.1, 3.4, 3.4, 3.4,
                                       5.8, 5.8, 5.8, 4.4 !

Additional inputs used for MVISBK = 2,3,6:
------------------------------------------
 Background extinction coefficients are computed from monthly
 CONCENTRATIONS of ammonium sulfate (BKSO4), ammonium nitrate (BKNO3),
 coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and
 elemental carbon (BKEC).  Month 1 is January.
 (ug/m**3)

 (BKSO4)  -- No default      ! BKSO4 = 0.1, 0.1, 0.1, 0.1,
                                       0.1, 0.1, 0.1, 0.1,
                                       0.1, 0.1, 0.1, 0.1 !
 (BKNO3)  -- No default      ! BKNO3 = 0.1, 0.1, 0.1, 0.1,
                                       0.1, 0.1, 0.1, 0.1,
                                       0.1, 0.1, 0.1, 0.1 !
 (BKPMC)  -- No default      ! BKPMC = 3.0, 3.0, 3.0, 3.0,
                                       3.0, 3.0, 3.0, 3.0,
                                       3.0, 3.0, 3.0, 3.0 !
 (BKOC)   -- No default      ! BKOC  = 0.5, 0.5, 0.5, 0.5,
                                       0.5, 0.5, 0.5, 0.5,
                                       0.5, 0.5, 0.5, 0.5 !
 (BKSOIL) -- No default      ! BKSOIL= 0.5, 0.5, 0.5, 0.5,
                                       0.5, 0.5, 0.5, 0.5,
                                       0.5, 0.5, 0.5, 0.5 !
 (BKEC)   -- No default      ! BKEC  = 0.02, 0.02, 0.02, 0.02,
                                       0.02, 0.02, 0.02, 0.02,
                                       0.02, 0.02, 0.02, 0.02 !

Additional inputs used for MVISBK = 2,3,5,6:
--------------------------------------------
 Extinction due to Rayleigh scattering is added (1/Mm)
                          (BEXTRAY) -- Default: 10.0 ! BEXTRAY = 10.0 !

!END!
-------------------------------------------------------------------------------

INPUT GROUP: 3 -- Output options
--------------

Output Units
------------
    Units for All Output       (IPRTU) -- Default: 1    ! IPRTU =  4   !
                     for            for
               Concentration    Deposition
      1 =        g/m**3          g/m**2/s
      2 =       mg/m**3         mg/m**2/s
      3 =       ug/m**3         ug/m**2/s
      4 =       ng/m**3         ng/m**2/s
      5 =     Odour Units

    Visibility: extinction expressed in 1/Mega-meters (IPRTU is ignored)


Averaging time(s) reported
--------------------------

    1-hr averages            (L1HR) -- Default: T    !   L1HR = F  !
```

```
3-hr averages            (L3HR) -- Default: T   !   L3HR = F  !

24-hr averages          (L24HR) -- Default: T   !  L24HR = F  !

Run-length averages     (LRUNL) -- Default: T   !  LRUNL = T  !

User-specified averaging time in hours - results for
an averaging time of NAVG hours are reported for
NAVG greater than 0:
                         (NAVG) -- Default: 0   !   NAVG =  0  !


Types of tabulations reported
-----------------------------

  1) Visibility: daily visibility tabulations are always reported
                 for the selected receptors when ASPEC = VISIB.
                 In addition, any of the other tabulations listed
                 below may be chosen to characterize the light
                 extinction coefficients.
                 [List file or Plot/Analysis File]


  2) Top 50 table for each averaging time selected
     [List file only]
                         (LT50) -- Default: T   !   LT50 = T  !

  3) Top 'N' table for each averaging time selected
     [List file or Plot file]
                        (LTOPN) -- Default: F   !  LTOPN = F  !

       -- Number of 'Top-N' values at each receptor
          selected (NTOP must be <= 4)
                         (NTOP) -- Default: 4   ! NTOP =  4   !

       -- Specific ranks of 'Top-N' values reported
          (NTOP values must be entered)
                 (ITOP(4) array) -- Default:     ! ITOP =  1 , 2 , 3 , 4   !
                                    1,2,3,4


  4) Threshold exceedance counts for each receptor and each averaging
     time selected
     [List file or Plot file]
                        (LEXCD) -- Default: F   !  LEXCD = F  !

        -- Identify the threshold for each averaging time by assigning a
           non-negative value (output units).

                                  -- Default: -1.0
           Threshold for  1-hr averages   (THRESH1) !  THRESH1 = 3.0E-02 !
           Threshold for  3-hr averages   (THRESH3) !  THRESH3 = -1.0  !
           Threshold for 24-hr averages  (THRESH24) ! THRESH24 = 3.0E-02 !
           Threshold for NAVG-hr averages (THRESHN) !  THRESHN = 3.0E-02 !


        -- Counts for the shortest averaging period selected can be
           tallied daily, and receptors that experience more than NCOUNT
           counts over any NDAY period will be reported.  This type of
           exceedance violation output is triggered only if NDAY > 0.

           Accumulation period(Days)
                          (NDAY) -- Default: 0   !    NDAY =  0  !
           Number of exceedances allowed
                        (NCOUNT) -- Default: 1   !  NCOUNT =  1  !


   5) Selected day table(s)

      Echo Option -- Many records are written each averaging period
      selected and output is grouped by day
```

```
[List file or Plot file]
                    (LECHO) -- Default: F   !  LECHO = F  !

Timeseries Option -- Averages at all selected receptors for
each selected averaging period are written to timeseries files.
Each file contains one averaging period, and all receptors are
written to a single record each averaging time.
[TSttUUUU.DAT files]
                    (LTIME) -- Default: F   !  LTIME = F  !

  -- Days selected for output
                (IECHO(366)) -- Default: 366*0
     ! IECHO  = 366*0  !
     (366 values must be entered)

Plot output options
-------------------

Plot files can be created for the Top-N, Exceedance, and Echo
tables selected above.  Two formats for these files are available,
DATA and GRID.  In the DATA format, results at all receptors are
listed along with the receptor location [x,y,val1,val2,...].
In the GRID format, results at only gridded receptors are written,
using a compact representation.  The gridded values are written in
rows (x varies), starting with the most southern row of the grid.
The GRID format is given the .GRD extension, and includes headers
compatible with the SURFER(R) plotting software.

A plotting and analysis file can also be created for the daily
peak visibility summary output, in DATA format only.

Generate Plot file output in addition to writing tables
to List file?
                    (LPLT) -- Default: F   ! LPLT  = F !

Use GRID format rather than DATA format,
when available?
                    (LGRD) -- Default: F   ! LGRD  = F !


Additional Debug Output
-----------------------

   Output selected information to List file
    for debugging?
                    (LDEBUG) -- Default: F  ! LDEBUG  = F !

 !END!

-------------------------------------------------
NOTICE: Starting year in control file sets the
        expected century for the simulation.  All
        YY years are converted to YYYY years in
        the range:        1948        2047
-------------------------------------------------

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  CALPOST Control File Input Summary -------------------------

     Replace run data with data in Puff file 1=Y:    1
                     Run starting date -- year: 1998
                                        month:    0
```

day: 0
Julian day: 0
Time at beginning of run - hour(0-23): 0
- second: 0
Run length (hours): 0

Every hour of data processed -- NREP = 1

Species & Concentration/Deposition Information
Species: S
Layer of processed data: -3
(>0=conc, -1=dry flux, -2=wet flux, -3=wet & dry flux)
Multiplicative scaling factor: 0.0000E+00
Additive scaling factor: 0.0000E+00
Hourly background values used?: F

Receptor information
Gridded receptors processed?: F
Discrete receptors processed?: T
CTSG Complex terrain receptors processed?: F

Discrete Receptors Processed

```
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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1 1 1 1 1 1 1 1 1 1 1
```

Visibility Processing is NOT Selected

Output options

| | |
|---|---|
| Units requested for output: | (ng/m**2/s) |

Averaging time(s) selected

| | |
|---|---|
| User-specified averaging time (NAVG hours): | 0 |
| 1-hr averages: | F |
| 3-hr averages: | F |
| 24-hr averages: | F |
| NAVG-hr averages: | F |
| Length of run averages: | T |

Output components selected

| | |
|---|---|
| Top-50: | T |
| Top-N values at each receptor: | F |
| Exceedance counts at each receptor: | F |
| Output selected information for debugging: | F |
| Echo tables for selected days: | F |
| Time-series for selected days: | F |

Plot file option

| | |
|---|---|
| Plot files created: | F |

IDENTIFICATION OF PROCESSED MODEL FILE ----------

CALPUFF 5.5 010730_1

Example merge application for nitrogen & sulfur deposition
Nitrogen deposition due to NOX, HNO3, NH4NO3, and (NH4)2SO4
Sulfur deposition due to SO2, (NH4)2SO4

Averaging time for values reported from model:
1 HOUR

Number of averaging periods in file from model:
7992

Chemical species names for each layer in model:

| | |
|---|---|
| N | TF |
| S | TF |

---

INPUT FILES

| Default Name | Unit No. | File Name and Path |
|---|---|---|
| CALPOST.INP | 5 | deppost.inp |
| MODEL.DAT | 4 | D:\CALPUFF\6DEP.DAT |

---

OUTPUT FILES

| Default Name | Unit No. | File Name and Path |
|---|---|---|
| CALPOST.LST | 8 | D:\CALPUFF\6DEPSALP.LST |

**********
**********
CALPOST Version 5.2 Level 991104b
**********
**********

S TF

TOP-50 7992 HOUR AVERAGE W+D DEPOSITION VALUES (ng/m**2/s)

| YEAR | DAY | TIME(HHMM) | RECEPTOR | TYPE | W+D DEPOSITION | COORDINATES (km) | |
|---|---|---|---|---|---|---|---|
| 1999 | 58 | 2300 | ( 0,1609) | D | 2.3197E-03 | 1236.247 | 20.960 |
| 1999 | 58 | 2300 | ( 0,1637) | D | 2.2597E-03 | 1237.553 | 20.105 |
| 1999 | 58 | 2300 | ( 0,1654) | D | 2.2492E-03 | 1237.948 | 17.786 |
| 1999 | 58 | 2300 | ( 0,1664) | D | 2.2355E-03 | 1238.366 | 15.358 |
| 1999 | 58 | 2300 | ( 0,1565) | D | 2.1362E-03 | 1240.367 | 18.081 |
| 1999 | 58 | 2300 | ( 0,1665) | D | 2.1299E-03 | 1240.731 | 15.875 |
| 1999 | 58 | 2300 | ( 0,1610) | D | 2.0936E-03 | 1240.482 | 23.720 |
| 1999 | 58 | 2300 | ( 0,1630) | D | 2.0375E-03 | 1241.669 | 23.413 |
| 1999 | 58 | 2300 | ( 0,1638) | D | 2.0270E-03 | 1242.304 | 21.031 |
| 1999 | 58 | 2300 | ( 0,1655) | D | 2.0266E-03 | 1242.724 | 18.603 |
| 1999 | 58 | 2300 | ( 0,1666) | D | 2.0241E-03 | 1243.097 | 16.394 |
| 1999 | 58 | 2300 | ( 0,1563) | D | 1.9889E-03 | 1242.042 | 26.353 |
| 1999 | 58 | 2300 | ( 0,1639) | D | 1.9236E-03 | 1244.453 | 21.503 |
| 1999 | 58 | 2300 | ( 0,1559) | D | 1.9185E-03 | 1244.063 | 23.818 |
| 1999 | 58 | 2300 | ( 0,1566) | D | 1.9165E-03 | 1245.048 | 19.338 |
| 1999 | 58 | 2300 | ( 0,1629) | D | 1.9120E-03 | 1243.635 | 26.250 |
| 1999 | 58 | 2300 | ( 0,1667) | D | 1.9109E-03 | 1245.642 | 16.610 |
| 1999 | 58 | 2300 | ( 0,1694) | D | 1.8973E-03 | 1246.543 | 11.996 |
| 1999 | 58 | 2300 | ( 0,1593) | D | 1.8362E-03 | 1248.638 | 5.578 |
| 1999 | 58 | 2300 | ( 0,1685) | D | 1.8332E-03 | 1247.760 | 14.669 |
| 1999 | 58 | 2300 | ( 0,1747) | D | 1.8193E-03 | 1249.173 | 2.607 |
| 1999 | 58 | 2300 | ( 0,1656) | D | 1.8078E-03 | 1247.453 | 19.643 |
| 1999 | 58 | 2300 | ( 0,1668) | D | 1.8060E-03 | 1248.007 | 17.130 |
| 1999 | 58 | 2300 | ( 0,1631) | D | 1.8041E-03 | 1246.442 | 24.232 |
| 1999 | 58 | 2300 | ( 0,1695) | D | 1.7999E-03 | 1248.910 | 12.517 |
| 1999 | 58 | 2300 | ( 0,1712) | D | 1.7967E-03 | 1249.356 | 9.980 |
| 1999 | 58 | 2300 | ( 0,1628) | D | 1.7953E-03 | 1246.044 | 26.551 |
| 1999 | 58 | 2300 | ( 0,1739) | D | 1.7774E-03 | 1250.260 | 5.367 |
| 1999 | 58 | 2300 | ( 0,1748) | D | 1.7628E-03 | 1250.765 | 3.072 |
| 1999 | 58 | 2300 | ( 0,1560) | D | 1.7224E-03 | 1248.143 | 24.717 |
| 1999 | 58 | 2300 | ( 0,1574) | D | 1.7110E-03 | 1250.671 | 15.306 |
| 1999 | 58 | 2300 | ( 0,1696) | D | 1.7092E-03 | 1251.170 | 13.015 |
| 1999 | 58 | 2300 | ( 0,1582) | D | 1.7082E-03 | 1251.624 | 10.474 |
| 1999 | 58 | 2300 | ( 0,1669) | D | 1.7080E-03 | 1250.265 | 17.628 |
| 1999 | 58 | 2300 | ( 0,1567) | D | 1.7063E-03 | 1249.741 | 20.028 |
| 1999 | 58 | 2300 | ( 0,1723) | D | 1.7049E-03 | 1251.992 | 8.269 |
| 1999 | 58 | 2300 | ( 0,1640) | D | 1.7035E-03 | 1249.252 | 22.217 |
| 1999 | 58 | 2300 | ( 0,1564) | D | 1.7005E-03 | 1247.862 | 27.520 |
| 1999 | 58 | 2300 | ( 0,1594) | D | 1.6842E-03 | 1252.902 | 4.684 |
| 1999 | 58 | 2300 | ( 0,1749) | D | 1.6829E-03 | 1253.029 | 3.571 |
| 1999 | 58 | 2300 | ( 0,1697) | D | 1.6188E-03 | 1253.478 | 13.295 |
| 1999 | 58 | 2300 | ( 0,1686) | D | 1.6187E-03 | 1252.946 | 15.699 |
| 1999 | 58 | 2300 | ( 0,1713) | D | 1.6159E-03 | 1253.961 | 11.111 |
| 1999 | 58 | 2300 | ( 0,1670) | D | 1.6131E-03 | 1252.546 | 18.017 |
| 1999 | 58 | 2300 | ( 0,1657) | D | 1.6096E-03 | 1251.991 | 20.530 |
| 1999 | 58 | 2300 | ( 0,1740) | D | 1.5992E-03 | 1255.156 | 6.218 |
| 1999 | 58 | 2300 | ( 0,1763) | D | 1.5966E-03 | 1255.715 | 1.644 |
| 1999 | 58 | 2300 | ( 0,1750) | D | 1.5942E-03 | 1255.579 | 3.791 |
| 1999 | 58 | 2300 | ( 0,1698) | D | 1.5299E-03 | 1255.737 | 13.795 |
| 1999 | 58 | 2300 | ( 0,1583) | D | 1.5296E-03 | 1256.252 | 11.498 |

```
*************************************************************************************************************
**************                                    CALPOST  Version 5.2          Level 991104b
*************************************************************************************************************
**************



 Run Title:
    BP Cherry Point Refinery
    Ferndale, WA
    Class I receptor concentrations

 ---------------------------------------------------------------------------------

 INPUT GROUP: 1 -- General run control parameters
 --------------

     Option to run all periods found
     in the met. file(s)  (METRUN)          Default: 0   ! METRUN =   1  !

         METRUN = 0 - Run period explicitly defined below
         METRUN = 1 - Run all periods in CALPUFF data file(s)

     Starting date:    Year  (ISYR) --    No default   ! ISYR  =  1998   !
     (used only if     Month (ISMO) --    No default   ! ISMO  =  0    !
      METRUN = 0)      Day   (ISDY) --    No default   ! ISDY  =  0    !
                       Hour  (ISHR) --    No default   ! ISHR  =  0    !

     Number of hours to process (NHRS) -- No default   ! NHRS  =  0  !

     Process every hour of data?(NREP) -- Default: 1   ! NREP  =  1  !
      (1 = every hour processed,
       2 = every 2nd hour processed,
       5 = every 5th hour processed, etc.)

 Species & Concentration/Deposition Information
 ----------------------------------------------

       Species to process (ASPEC)        -- No default   ! ASPEC = nox  !
       (ASPEC = VISIB for visibility processing)

       Layer/deposition code (ILAYER)    -- Default: 1   ! ILAYER =  1  !
         '1'  for CALPUFF concentrations,
         '-1' for dry deposition fluxes,
         '-2' for wet deposition fluxes,
         '-3' for wet+dry deposition fluxes.

       Scaling factors of the form:      -- Defaults:    ! A =  0.0    !
             X(new) = X(old) * A + B          A = 0.0    ! B =  0.0    !
         (NOT applied if A = B = 0.0)         B = 0.0

       Add Hourly Background Concentrations/Fluxes?
                                 (LBACK)  -- Default: F   ! LBACK =  F !

 Receptor information
 --------------------

   Gridded receptors processed?     (LG) -- Default: F   ! LG  = F  !
   Discrete receptors processed?    (LD) -- Default: F   ! LD  = T  !
   CTSG Complex terrain receptors processed?
                                   (LCT) -- Default: F   ! LCT = F  !

 --Report results by DISCRETE receptor RING?
   (only used when LD = T)      (LDRING) -- Default: F   ! LDRING = F  !

 --Select range of DISCRETE receptors (only used when LD = T):

   Select ALL DISCRETE receptors by setting NDRECP flag to -1;
                                 OR
   Select SPECIFIC DISCRETE receptors by entering a flag (0,1) for each
      0 = discrete receptor not processed
      1 = discrete receptor processed
   using repeated value notation to select blocks of receptors:
      23*1, 15*0, 12*1
   Flag for all receptors after the last one assigned is set to 0
   (NDRECP) -- Default: -1
                                              ! NDRECP =  -1  !
```

```
--Select range of GRIDDED receptors (only used when LG = T):

      X index of LL corner (IBGRID) -- Default: -1      ! IBGRID = -1  !
          (-1 OR 1 <= IBGRID <= NX)

      Y index of LL corner (JBGRID) -- Default: -1      ! JBGRID = -1  !
          (-1 OR 1 <= JBGRID <= NY)

      X index of UR corner (IEGRID) -- Default: -1      ! IEGRID = -1  !
          (-1 OR 1 <= IEGRID <= NX)

      Y index of UR corner (JEGRID) -- Default: -1      ! JEGRID = -1  !
          (-1 OR 1 <= JEGRID <= NY)

  Note: Entire grid is processed if IBGRID=JBGRID=IEGRID=JEGRID=-1


--Specific gridded receptors can also be excluded from CALPOST
  processing by filling a processing grid array with 0s and 1s.  If the
  processing flag for receptor index (i,j) is 1 (ON), that receptor
  will be processed if it lies within the range delineated by IBGRID,
  JBGRID,IEGRID,JEGRID and if LG=T. If it is 0 (OFF), it will not be
  processed in the run.  By default, all array values are set to 1 (ON).

  Number of gridded receptor rows provided in Subgroup (1a) to
  identify specific gridded receptors to process
                          (NGONOFF) -- Default: 0       ! NGONOFF =  0  !

!END!


--------------
Subgroup (1a) -- Specific gridded receptors included/excluded
--------------

    Specific gridded receptors are excluded from CALPOST processing
    by filling a processing grid array with 0s and 1s.  A total of
    NGONOFF lines are read here.  Each line corresponds to one 'row'
    in the sampling grid, starting with the NORTHERNMOST row that
    contains receptors that you wish to exclude, and finishing with
    row 1 to the SOUTH (no intervening rows may be skipped).  Within
    a row, each receptor position is assigned either a 0 or 1,
    starting with the westernmost receptor.
       0 = gridded receptor not processed
       1 = gridded receptor processed

    Repeated value notation may be used to select blocks of receptors:
       23*1, 15*0, 12*1

    Because all values are initially set to 1, any receptors north of
    the first row entered, or east of the last value provided in a row,
    remain ON.

    (NGXRECP) -- Default: 1


--------------------------------------------------------------------------------

INPUT GROUP: 2 -- Visibility Parameters (ASPEC = VISIB)
--------------

    Maximum relative humidity (%) used in particle growth curve
                             (RHMAX) -- Default: 98    ! RHMAX  = 98.0 !

    Modeled species to be included in computing the light extinction
     Include SULFATE?          (LVSO4) -- Default: T    ! LVSO4  = T  !
     Include NITRATE?          (LVNO3) -- Default: T    ! LVNO3  = T  !
     Include ORGANIC CARBON?   (LVOC)  -- Default: T    ! LVOC   = F  !
     Include COARSE PARTICLES? (LVPMC) -- Default: T    ! LVPMC  = F  !
     Include FINE PARTICLES?   (LVPMF) -- Default: T    ! LVPMF  = T  !
     Include ELEMENTAL CARBON? (LVEC)  -- Default: T    ! LVEC   = F  !

    And, when ranking for TOP-N, TOP-50, and Exceedance tables,
     Include BACKGROUND?       (LVBK)  -- Default: T    ! LVBK   = T  !

    Species name used for particulates in MODEL.DAT file
                   COARSE    (SPECPMC) -- Default: PMC ! SPECPMC = EC !
```

```
                FINE       (SPECPMF) -- Default: PMF ! SPECPMF = PM10 !

Extinction Efficiency (1/Mm per ug/m**3)
----------------------------------------
    MODELED particulate species:
            PM  COARSE      (EEPMC) -- Default: 0.6 ! EEPMC  = 0.6 !
            PM  FINE        (EEPMF) -- Default: 1.0 ! EEPMF  = 10.0 !
    BACKGROUND particulate species:
            PM  COARSE    (EEPMCBK) -- Default: 0.6 ! EEPMCBK = 0.6 !
    Other species:
            AMMONIUM SULFATE (EESO4) -- Default: 3.0 ! EESO4  = 3.0 !
            AMMONIUM NITRATE (EENO3) -- Default: 3.0 ! EENO3  = 3.0 !
            ORGANIC CARBON   (EEOC)  -- Default: 4.0 ! EEOC   = 4.0 !
            SOIL             (EESOIL)-- Default: 1.0 ! EESOIL = 1.0 !
            ELEMENTAL CARBON (EEEC)  -- Default: 10. ! EEEC   = 10.0 !

Background Extinction Computation
---------------------------------

    Method used for background light extinction
                            (MVISBK) -- Default: 6   ! MVISBK =  2  !

        1 =  Supply single light extinction and hygroscopic fraction
             - IWAQM (1993) RH adjustment applied to hygroscopic background
               and modeled sulfate and nitrate
        2 =  Compute extinction from speciated PM measurements (A)
             - Hourly RH adjustment applied to observed and modeled sulfate
               and nitrate
             - RH factor is capped at RHMAX
        3 =  Compute extinction from speciated PM measurements (B)
             - Hourly RH adjustment applied to observed and modeled sulfate
               and nitrate
             - Receptor-hour excluded if RH>RHMAX
             - Receptor-day excluded if fewer than 6 valid receptor-hours
        4 =  Read hourly transmissometer background extinction measurements
             - Hourly RH adjustment applied to modeled sulfate and nitrate
             - Hour excluded if measurement invalid (missing, interference,
               or large RH)
             - Receptor-hour excluded if RH>RHMAX
             - Receptor-day excluded if fewer than 6 valid receptor-hours
        5 =  Read hourly nephelometer background extinction measurements
             - Rayleigh extinction value (BEXTRAY) added to measurement
             - Hourly RH adjustment applied to modeled sulfate and nitrate
             - Hour excluded if measurement invalid (missing, interference,
               or large RH)
             - Receptor-hour excluded if RH>RHMAX
             - Receptor-day excluded if fewer than 6 valid receptor-hours
        6 =  Compute extinction from speciated PM measurements
             - FLAG RH adjustment factor applied to observed and
               modeled sulfate and nitrate

    Additional inputs used for MVISBK = 1:
    --------------------------------------
     Background light extinction (1/Mm)
                            (BEXTBK) -- No default   ! BEXTBK = 12.0 !
     Percentage of particles affected by relative humidity
                            (RHFRAC) -- No default   ! RHFRAC = 0.0 !

    Additional inputs used for MVISBK = 6:
    --------------------------------------
     Extinction coefficients for hygroscopic species (modeled and
     background) are computed using a monthly RH adjustment factor
     in place of an hourly RH factor (VISB.DAT file is NOT needed).
     Enter the 12 monthly factors here (RHFAC).  Month 1 is January.

     (RHFAC)  -- No default      ! RHFAC = 4.4, 4.4, 4.1, 4.1,
                                           4.1, 3.4, 3.4, 3.4,
                                           5.8, 5.8, 5.8, 4.4 !

    Additional inputs used for MVISBK = 2,3,6:
    ------------------------------------------
     Background extinction coefficients are computed from monthly
     CONCENTRATIONS of ammonium sulfate (BKSO4), ammonium nitrate (BKNO3),
     coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and
     elemental carbon (BKEC).  Month 1 is January.
     (ug/m**3)

     (BKSO4)  -- No default      ! BKSO4 = 0.1, 0.1, 0.1, 0.1,
                                           0.1, 0.1, 0.1, 0.1,
```

```
                                        0.1, 0.1, 0.1, 0.1 !
(BKNO3)  -- No default      ! BKNO3 = 0.1, 0.1, 0.1, 0.1,
                                        0.1, 0.1, 0.1, 0.1,
                                        0.1, 0.1, 0.1, 0.1 !
(BKPMC)  -- No default      ! BKPMC = 3.0, 3.0, 3.0, 3.0,
                                        3.0, 3.0, 3.0, 3.0,
                                        3.0, 3.0, 3.0, 3.0 !
(BKOC)   -- No default      ! BKOC  = 0.5, 0.5, 0.5, 0.5,
                                        0.5, 0.5, 0.5, 0.5,
                                        0.5, 0.5, 0.5, 0.5 !
(BKSOIL) -- No default      ! BKSOIL= 0.5, 0.5, 0.5, 0.5,
                                        0.5, 0.5, 0.5, 0.5,
                                        0.5, 0.5, 0.5, 0.5 !
(BKEC)   -- No default      ! BKEC  = 0.02, 0.02, 0.02, 0.02,
                                        0.02, 0.02, 0.02, 0.02,
                                        0.02, 0.02, 0.02, 0.02 !

Additional inputs used for MVISBK = 2,3,5,6:
--------------------------------------------
 Extinction due to Rayleigh scattering is added (1/Mm)
                        (BEXTRAY) -- Default: 10.0 ! BEXTRAY = 10.0 !

!END!
-------------------------------------------------------------------------------

INPUT GROUP: 3 -- Output options
--------------

Output Units
------------
    Units for All Output        (IPRTU) -- Default: 1   ! IPRTU =  3   !
                    for             for
               Concentration    Deposition
      1 =         g/m**3          g/m**2/s
      2 =        mg/m**3         mg/m**2/s
      3 =        ug/m**3         ug/m**2/s
      4 =        ng/m**3         ng/m**2/s
      5 =      Odour Units

    Visibility: extinction expressed in 1/Mega-meters (IPRTU is ignored)


Averaging time(s) reported
--------------------------

    1-hr averages           (L1HR) -- Default: T   !   L1HR = F  !

    3-hr averages           (L3HR) -- Default: T   !   L3HR = F  !

    24-hr averages         (L24HR) -- Default: T   !  L24HR = F  !

    Run-length averages    (LRUNL) -- Default: T   !  LRUNL = T  !

    User-specified averaging time in hours - results for
    an averaging time of NAVG hours are reported for
    NAVG greater than 0:
                            (NAVG) -- Default: 0   !   NAVG =  0  !


Types of tabulations reported
-----------------------------

    1) Visibility: daily visibility tabulations are always reported
                   for the selected receptors when ASPEC = VISIB.
                   In addition, any of the other tabulations listed
                   below may be chosen to characterize the light
                   extinction coefficients.
                   [List file or Plot/Analysis File]


    2) Top 50 table for each averaging time selected
       [List file only]
                            (LT50) -- Default: T   !   LT50 = T  !

    3) Top 'N' table for each averaging time selected
       [List file or Plot file]
                          (LTOPN) -- Default: F   !  LTOPN = F  !

         -- Number of 'Top-N' values at each receptor
```

```
selected (NTOP must be <= 4)
                    (NTOP) -- Default: 4    ! NTOP =  4    !

 -- Specific ranks of 'Top-N' values reported
    (NTOP values must be entered)
            (ITOP(4) array) -- Default:      ! ITOP =  1 , 2 , 3 , 4    !
                               1,2,3,4


4) Threshold exceedance counts for each receptor and each averaging
   time selected
   [List file or Plot file]
                     (LEXCD) -- Default: F    !  LEXCD = F  !

    -- Identify the threshold for each averaging time by assigning a
       non-negative value (output units).

                                -- Default: -1.0
       Threshold for  1-hr averages    (THRESH1) !  THRESH1 = 3.0E-02 !
       Threshold for  3-hr averages    (THRESH3) !  THRESH3 = -1.0   !
       Threshold for 24-hr averages   (THRESH24) ! THRESH24 = 3.0E-02 !
       Threshold for NAVG-hr averages (THRESHN) !  THRESHN = 3.0E-02 !


    -- Counts for the shortest averaging period selected can be
       tallied daily, and receptors that experience more than NCOUNT
       counts over any NDAY period will be reported.  This type of
       exceedance violation output is triggered only if NDAY > 0.

       Accumulation period(Days)
                      (NDAY) -- Default: 0    !    NDAY =  0  !
       Number of exceedances allowed
                    (NCOUNT) -- Default: 1    !  NCOUNT =  1  !


5) Selected day table(s)

   Echo Option -- Many records are written each averaging period
   selected and output is grouped by day
   [List file or Plot file]
                      (LECHO) -- Default: F    !  LECHO = F  !

   Timeseries Option -- Averages at all selected receptors for
   each selected averaging period are written to timeseries files.
   Each file contains one averaging period, and all receptors are
   written to a single record each averaging time.
   [TSttUUUU.DAT files]
                      (LTIME) -- Default: F    !  LTIME = F  !

     -- Days selected for output
                 (IECHO(366)) -- Default: 366*0
        ! IECHO  = 366*0  !
        (366 values must be entered)

Plot output options
-------------------

   Plot files can be created for the Top-N, Exceedance, and Echo
   tables selected above.  Two formats for these files are available,
   DATA and GRID.  In the DATA format, results at all receptors are
   listed along with the receptor location [x,y,val1,val2,...].
   In the GRID format, results at only gridded receptors are written,
   using a compact representation.  The gridded values are written in
   rows (x varies), starting with the most southern row of the grid.
   The GRID format is given the .GRD extension, and includes headers
   compatible with the SURFER(R) plotting software.

   A plotting and analysis file can also be created for the daily
   peak visibility summary output, in DATA format only.

   Generate Plot file output in addition to writing tables
   to List file?
                             (LPLT) -- Default: F    ! LPLT  = F !

   Use GRID format rather than DATA format,
   when available?
                             (LGRD) -- Default: F    ! LGRD  = F !
```

```
Additional Debug Output
-----------------------

   Output selected information to List file
    for debugging?
                                (LDEBUG) -- Default: F  ! LDEBUG  = F !

 !END!

-------------------------------------------------
NOTICE: Starting year in control file sets the
        expected century for the simulation.  All
        YY years are converted to YYYY years in
        the range:          1948        2047
-------------------------------------------------

*****************************************************************************************************************
**************
                                                CALPOST  Version 5.2          Level 991104b
*****************************************************************************************************************
**************



  CALPOST Control File Input Summary -------------------------

     Replace run data with data in Puff file 1=Y:     1
                       Run starting date -- year: 1998
                                            month:    0
                                              day:    0
                                        Julian day:    0
         Time at beginning of run  -  hour(0-23):    0
                                  -       second:    0
                              Run length (hours):    0


  Every hour of data processed -- NREP = 1


   Species & Concentration/Deposition Information
                                          Species: NOX
                         Layer of processed data:    1
     (>0=conc, -1=dry flux, -2=wet flux, -3=wet & dry flux)
                   Multiplicative scaling factor: 0.0000E+00
                         Additive scaling factor: 0.0000E+00
                  Hourly background values used?: F


   Receptor information
                     Gridded receptors processed?: F
                    Discrete receptors processed?: T
        CTSG Complex terrain receptors processed?: F

   Discrete Receptors Processed

   (All Discrete Receptors are Used)


   Visibility Processing is NOT Selected



   Output options
                       Units requested for output:   (ug/m**3)

   Averaging time(s) selected
       User-specified averaging time (NAVG hours):     0
                                     1-hr averages:    F
                                     3-hr averages:    F
                                    24-hr averages:    F
                                  NAVG-hr averages:    F
                            Length of run averages:    T

   Output components selected
                                            Top-50:    T
                     Top-N values at each receptor:    F
                Exceedance counts at each receptor:    F
```

Output selected information for debugging: F
Echo tables for selected days: F
Time-series for selected days: F

Plot file option
Plot files created: F

IDENTIFICATION OF PROCESSED MODEL FILE ----------

CALPUFF 5.5 010730_1

BP Cherry Point Cogeneration
Ferndale, WA
Case 6, Class I receptors

Averaging time for values reported from model:
1 HOUR

Number of averaging periods in file from model:
7992

Chemical species names for each layer in model:
SO2 1
NOX 1
PM10 1

********** NOTICE **********
NDRECP array reset to full range: all 1s

---

INPUT FILES

| Default Name | Unit No. | File Name and Path |
|---|---|---|
| CALPOST.INP | 5 | D:\CALPUFF\CONPOST.INP |
| MODEL.DAT | 4 | D:\CALPUFF\6CONCC.DAT |

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OUTPUT FILES

| Default Name | Unit No. | File Name and Path |
|---|---|---|
| CALPOST.LST | 8 | D:\CALPUFF\6CONCNOX.LST |

**********
CALPOST Version 5.2 Level 991104b
**********

NOX 1

TOP-50 7992 HOUR AVERAGE CONCENTRATION VALUES (ug/m**3)

| YEAR | DAY | TIME(HHMM) | RECEPTOR | TYPE | CONCENTRATION | COORDINATES (km) | |
|---|---|---|---|---|---|---|---|
| 1999 | 58 | 2300 | ( 0,1609) | D | 5.2860E-03 | 1236.247 | 20.960 |
| 1999 | 58 | 2300 | ( 0,1637) | D | 5.1649E-03 | 1237.553 | 20.105 |
| 1999 | 58 | 2300 | ( 0,1654) | D | 5.1544E-03 | 1237.948 | 17.786 |
| 1999 | 58 | 2300 | ( 0,1664) | D | 5.1367E-03 | 1238.366 | 15.358 |
| 1999 | 58 | 2300 | ( 0,1565) | D | 4.9190E-03 | 1240.367 | 18.081 |
| 1999 | 58 | 2300 | ( 0,1665) | D | 4.9143E-03 | 1240.731 | 15.875 |
| 1999 | 58 | 2300 | ( 0,1610) | D | 4.8102E-03 | 1240.482 | 23.720 |
| 1999 | 58 | 2300 | ( 0,1630) | D | 4.6987E-03 | 1241.669 | 23.413 |
| 1999 | 58 | 2300 | ( 0,1666) | D | 4.6961E-03 | 1243.097 | 16.394 |
| 1999 | 58 | 2300 | ( 0,1655) | D | 4.6934E-03 | 1242.724 | 18.603 |
| 1999 | 58 | 2300 | ( 0,1638) | D | 4.6865E-03 | 1242.304 | 21.031 |
| 1999 | 58 | 2300 | ( 0,1563) | D | 4.5903E-03 | 1242.042 | 26.353 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1999 | 58 | 2300 | ( 0,1833) | D | 4.4914E-03 | 1189.288 | 126.399 |
| 1999 | 58 | 2300 | ( 0,1639) | D | 4.4769E-03 | 1244.453 | 21.503 |
| 1999 | 58 | 2300 | ( 0,1566) | D | 4.4690E-03 | 1245.048 | 19.338 |
| 1999 | 58 | 2300 | ( 0,1667) | D | 4.4677E-03 | 1245.642 | 16.610 |
| 1999 | 58 | 2300 | ( 0,1559) | D | 4.4593E-03 | 1244.063 | 23.818 |
| 1999 | 58 | 2300 | ( 0,1694) | D | 4.4560E-03 | 1246.543 | 11.996 |
| 1999 | 58 | 2300 | ( 0,1629) | D | 4.4379E-03 | 1243.635 | 26.250 |
| 1999 | 58 | 2300 | ( 0,1827) | D | 4.3607E-03 | 1188.809 | 128.796 |
| 1999 | 58 | 2300 | ( 0,1593) | D | 4.3530E-03 | 1248.638 | 5.578 |
| 1999 | 58 | 2300 | ( 0,1747) | D | 4.3287E-03 | 1249.173 | 2.607 |
| 1999 | 58 | 2300 | ( 0,1685) | D | 4.3186E-03 | 1247.760 | 14.669 |
| 1999 | 58 | 2300 | ( 0,1712) | D | 4.2593E-03 | 1249.356 | 9.980 |
| 1999 | 58 | 2300 | ( 0,1695) | D | 4.2586E-03 | 1248.910 | 12.517 |
| 1999 | 58 | 2300 | ( 0,1668) | D | 4.2567E-03 | 1248.007 | 17.130 |
| 1999 | 58 | 2300 | ( 0,1656) | D | 4.2514E-03 | 1247.453 | 19.643 |
| 1999 | 58 | 2300 | ( 0,1739) | D | 4.2354E-03 | 1250.260 | 5.367 |
| 1999 | 58 | 2300 | ( 0,1631) | D | 4.2305E-03 | 1246.442 | 24.232 |
| 1999 | 58 | 2300 | ( 0,1748) | D | 4.2136E-03 | 1250.765 | 3.072 |
| 1999 | 58 | 2300 | ( 0,1628) | D | 4.2056E-03 | 1246.044 | 26.551 |
| 1999 | 58 | 2300 | ( 0,1785) | D | 4.1322E-03 | 1191.635 | 126.884 |
| 1999 | 58 | 2300 | ( 0,1723) | D | 4.0813E-03 | 1251.992 | 8.269 |
| 1999 | 58 | 2300 | ( 0,1582) | D | 4.0809E-03 | 1251.624 | 10.474 |
| 1999 | 58 | 2300 | ( 0,1696) | D | 4.0759E-03 | 1251.170 | 13.015 |
| 1999 | 58 | 2300 | ( 0,1574) | D | 4.0736E-03 | 1250.671 | 15.306 |
| 1999 | 58 | 2300 | ( 0,1824) | D | 4.0677E-03 | 1189.563 | 131.406 |
| 1999 | 58 | 2300 | ( 0,1560) | D | 4.0673E-03 | 1248.143 | 24.717 |
| 1999 | 58 | 2300 | ( 0,1669) | D | 4.0606E-03 | 1250.265 | 17.628 |
| 1999 | 58 | 2300 | ( 0,1749) | D | 4.0521E-03 | 1253.029 | 3.571 |
| 1999 | 58 | 2300 | ( 0,1594) | D | 4.0513E-03 | 1252.902 | 4.684 |
| 1999 | 58 | 2300 | ( 0,1567) | D | 4.0501E-03 | 1249.741 | 20.028 |
| 1999 | 58 | 2300 | ( 0,1640) | D | 4.0370E-03 | 1249.252 | 22.217 |
| 1999 | 58 | 2300 | ( 0,1828) | D | 4.0177E-03 | 1191.176 | 129.268 |
| 1999 | 58 | 2300 | ( 0,1564) | D | 4.0150E-03 | 1247.862 | 27.520 |
| 1999 | 58 | 2300 | ( 0,1817) | D | 3.9776E-03 | 1189.091 | 133.770 |
| 1999 | 58 | 2300 | ( 0,1816) | D | 3.9154E-03 | 1188.572 | 136.108 |
| 1999 | 58 | 2300 | ( 0,1786) | D | 3.9077E-03 | 1190.759 | 131.630 |
| 1999 | 58 | 2300 | ( 0,1713) | D | 3.8966E-03 | 1253.961 | 11.111 |
| 1999 | 58 | 2300 | ( 0,1697) | D | 3.8959E-03 | 1253.478 | 13.295 |