```
                                  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
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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

*******************************************************************************************************************************
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*******************************************************************************************************************************


                              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)

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)

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)

****

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

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

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

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

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


*****************************************************************************************************************
**************
                                          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: 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

```
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```

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

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