```
*****************************************************************************************************************
**********
                                    CALPOST  Version 6.221        Level 080724
*****************************************************************************************************************
**********



 Internal Coordinate Transformations by  ---  COORDLIB   Version: 1.99   Level: 070921



  Run Title:
    Cleco, Brame Energy Center, Rodemacher II
    BRETON WILDERNESS AREA CALPOST 2003
    VISIBILITY METHOD 8

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

 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  =  2003  !
                    Month  (ISMO)  --    No default   ! ISMO  =  1  !
                    Day    (ISDY)  --    No default   ! ISDY  =  1  !
     Starting time:    Hour   (ISHR)  --    No default   ! ISHR  =  0  !
                    Minute (ISMIN) --    No default   ! ISMIN =  0  !
                    Second (ISSEC) --    No default   ! ISSEC =  0  !

     Ending date:      Year   (IEYR)  --    No default   ! IEYR  =  2003  !
                    Month  (IEMO)  --    No default   ! IEMO  =  12  !
                    Day    (IEDY)  --    No default   ! IEDY  =  31  !
     Ending time:      Hour   (IEHR)  --    No default   ! IEHR  =  0  !
                    Minute (IEMIN) --    No default   ! IEMIN =  0  !
                    Second (IESEC) --    No default   ! IESEC =  0  !

     (These are only used if METRUN = 0)

     All times are in the base time zone of the CALPUFF simulation.
     CALPUFF Dataset Version 2.1 contains the zone, but earlier versions
     do not, and the zone must be specified here.  The zone is the
     number of hours that must be ADDED to the time to obtain UTC (or GMT).
     Identify the Base Time Zone for the CALPUFF simulation
                        (BTZONE) -- No default   ! BTZONE = 6.0 !

     Process every period of data?
                         (NREP) -- Default: 1   ! NREP  =  1  !
      (1 = every period processed,
       2 = every 2nd period processed,
```

5 = every 5th period 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 !

Source of NO2 when ASPEC=NO2 (above) or LVNO2=T (Group 2) may be
from CALPUFF NO2 concentrations OR from a fraction of CALPUFF NOx
concentrations. Specify the fraction of NOx that is treated as NO2
either as a constant or as a table of fractions that depend on the
magnitude of the NOx concentration:
(NO2CALC) -- Default: 1 ! NO2CALC = 1 !
0 = Use NO2 directly (NO2 must be in file)
1 = Specify a single NO2/NOx ratio (RNO2NOX)
2 = Specify a table NO2/NOx ratios (TNO2NOX)
(NOTE: Scaling Factors must NOT be used with NO2CALC=2)

Single NO2/NOx ratio (0.0 to 1.0) for treating some
or all NOx as NO2, where [NO2] = [NOX] * RNO2NOX
(used only if NO2CALC = 1)
(RNO2NOX) -- Default: 1.0 ! RNO2NOX = 1.0 !

Table of NO2/NOx ratios that vary with NOx concentration.
Provide 14 NOx concentrations (ug/m**3) and the corresponding
NO2/NOx ratio, with NOx increasing in magnitude. The ratio used
for a particular NOx concentration is interpolated from the values
provided in the table. The ratio for the smallest tabulated NOx
concentration (the first) is used for all NOx concentrations less
than the smallest tabulated value, and the ratio for the largest
tabulated NOx concentration (the last) is used for all NOx
concentrations greater than the largest tabulated value.
(used only if NO2CALC = 2)

NOx concentration(ug / m3)
(CNOX) -- No default
! CNOX = 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0,
8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0 !

NO2/NOx ratio for each NOx concentration:
(TNO2NOX) -- No default

```
! TNO2NOX = 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,
           1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0 !


Source information
------------------

  Option to process source contributions:
       0 =  Process only total reported contributions
       1 =  Sum all individual source contributions and process
       2 =  Run in TRACEBACK mode to identify source
           contributions at a SINGLE receptor
                    (MSOURCE) -- Default: 0   ! MSOURCE =  0  !


Plume Model Output Processing Options
-------------------------------------

  Output from models other than CALPUFF and CALGRID can be written in
  the CONC.DAT format and processed by CALPOST.  Plume models such as
  AERMOD typically do not treat CALM hours, and do not include such hours
  in multiple-hour averages, with specific rules about how many calm hours
  can be removed from an average.  This treatment is known as CALM
  PROCESSING.  Calm periods are identified from wind speeds in the
  meteorological data file for the application, which must be identified
  in Input Group 0 as the single-point meteorological data file MET1DAT.
       0 =  Option is not used for CALPUFF/CALGRID output files
       1 =  Apply CALM processing procedures to multiple-hour averages
                  (MCALMPRO) -- Default: 0   ! MCALMPRO =  0  !

  Format of Single-point Met File
       1 =  AERMOD/AERMET SURFACE file
                   (MET1FMT) -- Default: 1   ! MET1FMT =  1  !


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 = 80*0, 40*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)

Test visibility options specified to see
if they conform to FLAG 2008 configuration?
(MVISCHECK) -- Default: 1 ! MVISCHECK = 1 !

0 = NO checks are made
1 = Technical options must conform to FLAG 2008 visibility guidance
ASPEC = VISIB
LVNO2 = T
NO2CALC = 1
RNO2NOX = 1.0
MVISBK = 8
M8_MODE = 5

Some of the data entered for use with the FLAG 2008 configuration
are specific to the Class I area being evaluated. These values can
be checked within the CALPOST user interface when the name of the
Class I area is provided.

Name of Class I Area (used for QA purposes only)
(AREANAME) -- Default: User ! AREANAME = BRET !

Particle growth curve f(RH) for hygroscopic species
(MFRH) -- Default: 4 ! MFRH = 4 !

1 = IWAQM (1998) f(RH) curve (originally used with MVISBK=1)
2 = FLAG (2000) f(RH) tabulation
3 = EPA (2003) f(RH) tabulation
4 = IMPROVE (2006) f(RH) tabulations for sea salt, and for small and
large SULFATE and NITRATE particles;
Used in Visibility Method 8 (MVISBK = 8 with M8_MODE = 1, 2, or 3)

Maximum relative humidity (%) used in particle growth curve
(RHMAX) -- Default: 98 ! RHMAX = 95 !

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 = T !
Include COARSE PARTICLES? (LVPMC) -- Default: T ! LVPMC = T !
Include FINE PARTICLES? (LVPMF) -- Default: T ! LVPMF = T !
Include ELEMENTAL CARBON? (LVEC) -- Default: T ! LVEC = T !
Include NO2 absorption? (LVNO2) -- Default: F ! LVNO2 = T !
With Visibility Method 8 -- Default: T
FLAG (2008)

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 = PMC !
            FINE      (SPECPMF) -- Default: PMF ! SPECPMF = PMF !

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  = 1 !
   BACKGROUND particulate species:
         PM  COARSE    (EEPMCBK) -- Default: 0.6   ! EEPMCBK = 0.6 !
   Other species:
         AMMONIUM SULFATE (EESO4) -- Default: 3.0   ! EESO4  = 3 !
         AMMONIUM NITRATE (EENO3) -- Default: 3.0   ! EENO3  = 3 !
         ORGANIC CARBON   (EEOC)  -- Default: 4.0   ! EEOC   = 4 !
         SOIL            (EESOIL)-- Default: 1.0   ! EESOIL = 1 !
         ELEMENTAL CARBON (EEEC)  -- Default: 10.   ! EEEC   = 10 !
         NO2 GAS         (EENO2) -- Default: .1755 ! EENO2  = 0.1755 !
   Visibility Method 8:
         AMMONIUM SULFATE (EESO4S)   Set Internally (small)
         AMMONIUM SULFATE (EESO4L)   Set Internally (large)
         AMMONIUM NITRATE (EENO3S)   Set Internally (small)
         AMMONIUM NITRATE (EENO3L)   Set Internally (large)
         ORGANIC CARBON   (EEOCS)    Set Internally (small)
         ORGANIC CARBON   (EEOCL)    Set Internally (large)
         SEA SALT         (EESALT)   Set Internally

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

   Method used for the 24h-average of percent change of light extinction:
   Hourly ratio of source light extinction / background light extinction
   is averaged?              (LAVER) -- Default: F   ! LAVER = F  !


   Method used for background light extinction
                     (MVISBK) -- Default: 8   ! MVISBK =  8  !
                              FLAG (2008)

      1 =  Supply single light extinction and hygroscopic fraction
         - Hourly F(RH) adjustment applied to hygroscopic background
           and modeled sulfate and nitrate
      2 =  Background extinction from speciated PM concentrations (A)
         - Hourly F(RH) adjustment applied to observed and modeled sulfate
           and nitrate
         - F(RH) factor is capped at F(RHMAX)
      3 =  Background extinction from speciated PM concentrations (B)
         - Hourly F(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 F(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 F(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 = Background extinction from speciated PM concentrations
- FLAG (2000) monthly RH adjustment factor applied to observed and and modeled sulfate and nitrate

7 = Use observed weather or prognostic weather information for background extinction during weather events; otherwise, use Method 2
- Hourly F(RH) adjustment applied to modeled sulfate and nitrate
- F(RH) factor is capped at F(RHMAX)
- During observed weather events, compute Bext from visual range if using an observed weather data file, or
- During prognostic weather events, use Bext from the prognostic weather file
- Use Method 2 for hours without a weather event

8 = Background extinction from speciated PM concentrations using the IMPROVE (2006) variable extinction efficiency formulation (MFRH must be set to 4)
- Split between small and large particle concentrations of SULFATES, NITRATES, and ORGANICS is a function of concentration and different extinction efficiencies are used for each
- Source-induced change in visibility includes the increase in extinction of the background aerosol due to the change in the extinction efficiency that now depends on total concentration.
- Fsmall(RH) and Flarge(RH) adjustments for small and large particles are applied to observed and modeled sulfate and nitrate concentrations
- Fsalt(RH) adjustment for sea salt is applied to background sea salt concentrations
- F(RH) factors are capped at F(RHMAX)
- RH for Fsmall(RH), Flarge(RH), and Fsalt(RH) may be obtained from hourly data as in Method 2 or from the FLAG monthly RH adjustment factor used for Method 6 where EPA F(RH) tabulation is used to infer RH, or monthly Fsmall, Flarge, and Fsalt RH adjustment factors can be directly entered.
  Furthermore, a monthly RH factor may be applied to either hourly concentrations or daily concentrations to obtain the 24-hour extinction.
  These choices are made using the M8_MODE selection.

Additional inputs used for MVISBK = 1:

Background light extinction (1/Mm)
(BEXTBK) -- No default ! BEXTBK = 12 !
Percentage of particles affected by relative humidity
(RHFRAC) -- No default ! RHFRAC = 10 !

Additional inputs used for MVISBK = 6,8:

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 = 3.5, 3.3, 3.3, 3.3,
                             3.4, 3.6, 3.8, 3.8,
                             3.6, 3.4, 3.4, 3.5 !
```

Additional inputs used for MVISBK = 7:

The weather data file (DATSAV abbreviated space-delimited) that is identified as VSRN.DAT may contain data for more than one station. Identify the stations that are needed in the order in which they will be used to obtain valid weather and visual range. The first station that contains valid data for an hour will be used. Enter up to MXWSTA (set in PARAMS file) integer station IDs of up to 6 digits each as variable IDWSTA, and enter the corresponding time zone for each, as variable TZONE (= UTC-LST).

A prognostic weather data file with Bext for weather events may be used in place of the observed weather file. Identify this as the VSRN.DAT file and use a station ID of IDWSTA = 999999, and TZONE = 0.

NOTE: TZONE identifies the time zone used in the dataset. The DATSAV abbreviated space-delimited data usually are prepared with UTC time rather than local time, so TZONE is typically set to zero.

```
(IDWSTA)   -- No default   * IDWSTA = 000000 *
(TZONE)    -- No default   * TZONE =      0. *
```

Additional inputs used for MVISBK = 2,3,6,7,8:

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 = 0.23, 0.23, 0.23, 0.23,
                             0.23, 0.23, 0.23, 0.23,
                             0.23, 0.23, 0.23, 0.23 !
(BKNO3)  -- No default     ! BKNO3 = 0.10, 0.10, 0.10, 0.10,
                             0.10, 0.10, 0.10, 0.10,
                             0.10, 0.10, 0.10, 0.10 !
(BKPMC)  -- No default     ! BKPMC = 3.01, 3.01, 3.01, 3.01,
                             3.01, 3.01, 3.01, 3.01,
                             3.01, 3.01, 3.01, 3.01 !
(BKOC)   -- No default     ! BKOC  = 1.78, 1.78, 1.78, 1.78,
                             1.78, 1.78, 1.78, 1.78,
                             1.78, 1.78, 1.78, 1.78 !
(BKSOIL) -- No default     ! BKSOIL= 0.48, 0.48, 0.48, 0.48,
                             0.48, 0.48, 0.48, 0.48,
                             0.48, 0.48, 0.48, 0.48 !
(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 = 8:

Extinction coefficients for hygroscopic species (modeled and background) may be computed using hourly RH values and hourly modeled concentrations, or using monthly RH values inferred from the RHFAC adjustment factors and either hourly or daily modeled concentrations, or using monthly RHFSML, RHFLRG, and RHFSEA adjustment factors and either hourly or daily modeled concentrations.

(M8_MODE) -- Default: 5 ! M8_MODE= 5 !
FLAG (2008)

1 = Use hourly RH values from VISB.DAT file with hourly modeled and monthly background concentrations.
2 = Use monthly RH from monthly RHFAC and EPA (2003) f(RH) tabulation with hourly modeled and monthly background concentrations. (VISB.DAT file is NOT needed).
3 = Use monthly RH from monthly RHFAC with EPA (2003) f(RH) tabulation with daily modeled and monthly background concentrations. (VISB.DAT file is NOT needed).
4 = Use monthly RHFSML, RHFLRG, and RHFSEA with hourly modeled and monthly background concentrations. (VISB.DAT file is NOT needed).
5 = Use monthly RHFSML, RHFLRG, and RHFSEA with daily modeled and monthly background concentrations. (VISB.DAT file is NOT needed).

Background extinction coefficients are computed from monthly CONCENTRATIONS of sea salt (BKSALT). Month 1 is January. (ug/m**3)

(BKSALT) -- No default ! BKSALT= 0.19, 0.19, 0.19, 0.19,
0.19, 0.19, 0.19, 0.19,
0.19, 0.19, 0.19, 0.19 !

Extinction coefficients for hygroscopic species (modeled and background) can be computed using monthly RH adjustment factors in place of an hourly RH factor (VISB.DAT file is NOT needed). Enter the 12 monthly factors here (RHFSML,RHFLRG,RHFSEA). Month 1 is January. (Used if M8_MODE = 4 or 5)

Small ammonium sulfate and ammonium nitrate particle sizes
(RHFSML) -- No default ! RHFSML= 4.08, 3.82, 3.79, 3.74,
3.94, 4.12, 4.41, 4.37,
4.18, 3.92, 3.93, 4.06 !

Large ammonium sulfate and ammonium nitrate particle sizes
(RHFLRG) -- No default ! RHFLRG= 2.91, 2.76, 2.74, 2.72,
2.83, 2.94, 3.10, 3.07,
2.97, 2.82, 2.83, 2.90 !

Sea salt particles
(RHFSEA) -- No default ! RHFSEA= 4.10, 3.89, 3.87, 3.85,
4.02, 4.21, 4.44, 4.38,

4.23, 3.99, 4.01, 4.11 !

Additional inputs used for MVISBK = 2,3,5,6,7,8:

Extinction due to Rayleigh scattering is added (1/Mm)
(BEXTRAY) -- Default: 10.0 ! BEXTRAY = 11 !

!END!

INPUT GROUP: 3 -- Output options

Documentation

Documentation records contained in the header of the
CALPUFF output file may be written to the list file.
Print documentation image?
(LDOC) -- Default: F ! LDOC = F !

Output Units

Units for All Output (IPRTU) -- Default: 1 ! IPRTU = 3 !

	for Concentration	for 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-pd averages (L1PD) -- Default: T ! L1PD = F !
(pd = averaging period of model output)

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, minutes, seconds
- results for this averaging time are reported if it is not zero

(NAVGH) -- Default: 0 ! NAVGH = 0 !
(NAVGM) -- Default: 0 ! NAVGM = 0 !
(NAVGS) -- Default: 0 ! NAVGS = 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 = F !

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 = -1.0 !
Threshold for 3-hr averages (THRESH3) ! THRESH3 = -1.0 !
Threshold for 24-hr averages (THRESH24) ! THRESH24 = -1.0 !
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.
[TSERIES_ASPEC_ttHR_CONC_TSUNAM.DAT files]
(LTIME) -- Default: F ! LTIME = F !

Peak Value Option -- Averages at all selected receptors for
each selected averaging period are screened and the peak value
each period is written to timeseries files.
Each file contains one averaging period.
[PEAKVAL_ASPEC_ttHR_CONC_TSUNAM.DAT files]
(LPEAK) -- Default: F ! LPEAK = 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 !

Auxiliary Output Files (for subsequent analyses)

Visibility

A separate output file may be requested that contains the change in visibility at each selected receptor when ASPEC = VISIB. This file can be processed to construct visibility measures that are not available in CALPOST.

Output file with the visibility change at each receptor?
(MDVIS) -- Default: 0 ! MDVIS = 1 !

0 = Do Not create file
1 = Create file of DAILY (24 hour) Delta-Deciview
2 = Create file of DAILY (24 hour) Extinction Change (%)
3 = Create file of HOURLY Delta-Deciview
4 = Create file of HOURLY Extinction Change (%)

Additional Debug Output

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

Output hourly extinction information to REPORT.HRV? (Visibility Method 7)
(LVEXTHR) -- Default: F ! LVEXTHR = 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: 1953 2052

****
CALPOST Version 6.221 Level 080724
****

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

Replace run data with data in Puff file 1=Y: 1
Run starting date -- year: 2003
month: 1
day: 1
Julian day: 0
Time at start of run - hour(0-23): 0
- minute: 0
- second: 0

Run ending date -- year: 2003
month: 12
day: 31
Julian day: 0
Time at end of run - hour(0-23): 0
- minute: 0
- second: 0

Base time zone (Group 1): 6.0

Every period 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

SAMPLER option
Processing method: 0
0= SAMPLER option not used
1= Report total modeled impact (list file)
2= TRACEBACK mode (DAT files)
3= TRACEBACK mode with sampling factor (DAT files)

Source information
Source contribution processing: 0
0= No source contributions
1= Contributions are summed
2= TRACEBACK mode for 1 receptor
3= Reported TOTAL is processed

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

Discrete Receptors Processed

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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

Visibility Processing Selected

Visibility Options are Checked for FLAG 2008

Class I Area: BRET

Extinction Computation includes:
SULFATES
NITRATES
NO2 GAS
Fraction CALPUFF NOx used as NO2 : 1.000
ORGANIC CARBON
ELEMENTAL CARBON
COARSE PARTICLES
FINE PARTICLES
BACKGROUND
Particle f(RH) growth curve(s) : IMPROVE (2006) Tables
Max. RH % for particle growth (%): 95.000

Species name for modeled particulates
coarse: PMC
fine: PMF

Extinction Efficiency (1/Mm per ug/m**3)
ammonium sulfate S: 2.2000
ammonium sulfate L: 4.8000
ammonium nitrate S: 2.4000
ammonium nitrate L: 5.1000
organic carbon S: 2.8000
organic carbon L: 6.1000
sea salt: 1.7000
NO2 gas: 0.1755
soil: 1.0000
elemental carbon: 10.0000
MODELED coarse PM: 0.6000
MODELED fine PM: 1.0000
BACKGRND coarse PM: 0.6000

Background Extinction Calculation Method 8

Method 8 Mode: 5
(24-hr avg conc. with monthly F(RH) data)

Monthly RH factor for small particles:
1 .4080E+01
2 .3820E+01
3 .3790E+01
4 .3740E+01
5 .3940E+01
6 .4120E+01
7 .4410E+01
8 .4370E+01
9 .4180E+01
10 .3920E+01
11 .3930E+01
12 .4060E+01

Monthly RH factor for large particles:
1 .2910E+01
2 .2760E+01
3 .2740E+01

4	.2720E+01
5	.2830E+01
6	.2940E+01
7	.3100E+01
8	.3070E+01
9	.2970E+01
10	.2820E+01
11	.2830E+01
12	.2900E+01

Monthly RH factor for sea salt:

1	.4100E+01
2	.3890E+01
3	.3870E+01
4	.3850E+01
5	.4020E+01
6	.4210E+01
7	.4440E+01
8	.4380E+01
9	.4230E+01
10	.3990E+01
11	.4010E+01
12	.4110E+01

Rayleigh scattering extinction (1/Mm): 11.00

Monthly background conc. (ug/m**3):

	(NH4)2SO4	(NH4)NO3	PM-C	OC	SOIL	EC	SEA SALT
1	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
2	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
3	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
4	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
5	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
6	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
7	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
8	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
9	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
10	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
11	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
12	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00

Optional output file for visibility 1

Create file of DAILY (24 hour) Delta-Deciview

Output options

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

Averaging time(s) selected

User-specified averaging time (hr:mm:ss): 0: 0: 0

1-pd averages: F

1-hr averages: F

3-hr averages: F

24-hr averages: T
User-specified averages: F
Length of run averages: F

Output components selected
Top-50: F
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
Peak value Time-series for selected days: F

Plot file option
Plot files created: F

MAPSPEC: Species Mapping
Number of species-levels in file : 9
Number of species-levels processed: 10

Input ID	Processing ID	Name	
1	1	SO2	1
2	2	SO4	1
3	3	NOX	1
4	4	HNO3	1
5	5	NO3	1
6	6	PMC	1
7	7	PMF	1
8	8	EC	1
9	9	SOA	1

Visibility Species

	Processing ID	Name	
sulfate	2	SO4	1
no2gas	10	NO2	1
noxgas	3	NOX	1
nitrate	5	NO3	1
specpmf	7	PMF	1
specpmc	6	PMC	1
orgcarb	9	SOA	1
lmncarb	8	EC	1

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

CALPUFF 5.8.4 130731

CLECO, Brame, Rodemacher II
ALM-step1
Repartitioning of NO3/HNO3

Averaging time for values reported from model:
1 HOUR

Number of averaging periods in file from model:
8740

Chemical species names for each layer in model:
SO2 1
SO4 1
NOX 1
HNO3 1
NO3 1
PMC 1
PMF 1
EC 1
SOA 1

QA Information -- Internal Representation of Data

CONTENTS OF CONTROL FILE ----------
METRUN = 1
(so times in model output file are used)
isyr,ismo,isdy = 2002 12 31
ishr,ismin,issec = 23 0 0
ieyr,iemo,iedy = 2003 12 31
iehr,iemin,iesec = 3 0 0
nper = 8740
aspec,ilayer =VISIB 1
asplv =VISIB BOESNCFG
NO2CALC = 1
RNO2NOX = 1.00000000
MSOURCE = 0
MCALMPRO = 0
MET1FMT = 1
LG,LD,LCT,LDRING = F T F F
IBGRID,IEGRID = -1 -1
JBGRID,JEGRID = -1 -1
NDRECP =
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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
a,b,LSCALE = 0.00000000E+00 0.00000000E+00 F
LBACK = F
MVISBK = 8
MVISCHECK = 1
AREANAME =BRET
MFRH = 4
RHMAX,BEXTRAY = 95.0000000 11.0000000
RHFRAC,BEXTBK = 10.0000000 12.0000000
LVSO4,LVNO3,LVNO2 = T T T
LVOC,LVEC = T T
LVPMC,LVPMF,LVBK = T T T
SPECPMC,SPECPMF =PMC PMF
EEPMC,EEPMF,EEPMCBK = 0.600000024 1.00000000 0.600000024
EESO4,EENO3,EEOC = 3.00000000 3.00000000 4.00000000
EESO4S,EENO3S,EEOCS = 2.20000005 2.40000010 2.79999995
EESO4L,EENO3L,EEOCL = 4.80000019 5.09999990 6.09999990

```
EESOIL,EEEC,EENO2   = 1.00000000 10.0000000 0.175500005
navg,ntop           = 0 4
navgh,navgm,navgs   = 0 0 0
itop = 1 2 3 4
L[1,3,24]HR         = F F T
LNAVG, LRUNL        = F F
LT50, LTOPN, LEXCD  = F F F
LECHO, LTIME, LPEAK = F F F
THRESH1             = -1.00000000
THRESH3             = -1.00000000
THRESH24            = -1.00000000
THRESHN             = -1.00000000
LPLT, LGRD          = F F
MDVIS               = 1
LDEBUG              = F
LCTSG               = F

CONTENTS OF HEADER OF MODEL OUTPUT FILE ---------
model :   CALPUFF     5.8.4       130731
msyr,mjsday       = 2002 365
mshr,mssec        = 23 0
nsecdt (period)   = 3600
xbtz              = 6.00000000
mnper,nszout,mavgpd = 8740 9 1
xorigkm,yorigkm,nssta =  -951.547058 -1646.63708 0
ielmet,jelmet = 462 376
delx,dely,nz = 4.00000000 4.00000000 1
iastar,iastop,jastar,jastop = 288 451 117 274
isastr,isastp,jsastr,jsastp = 1 462 1 376
(computed) ngx,ngy  = 462 376
meshdn,npts,nareas  = 1 1 0
nlines,nvols        = 0 0
ndrec,nctrec,LSGRID = 120 0 F

Discrete Receptors (n,x,y,z):
1 270.325867 -617.518921 365.000000
2 271.090393 -617.494019 365.000000
3 271.854797 -617.469116 368.000000
4 268.767273 -616.646362 411.000000
5 269.531677 -616.621704 462.000000
6 270.295959 -616.597046 431.000000
7 271.060364 -616.572144 518.000000
8 271.824768 -616.547241 487.000000
9 272.589050 -616.522339 396.000000
10 265.680481 -615.822632 518.000000
11 266.444763 -615.798218 523.000000
12 267.209045 -615.773682 548.000000
13 267.973328 -615.749146 579.000000
14 268.737610 -615.724487 547.000000
15 269.501892 -615.699829 538.000000
16 270.266174 -615.675049 640.000000
17 271.030334 -615.650269 608.000000
18 260.301697 -615.069458 335.000000
19 261.065857 -615.045532 431.000000
20 261.830139 -615.021606 457.000000
21 262.594299 -614.997559 414.000000
```

22 263.358459 -614.973511 426.000000
23 264.122742 -614.949341 426.000000
24 264.886902 -614.924927 388.000000
25 265.651062 -614.900635 388.000000
26 266.415344 -614.876343 365.000000
27 267.179504 -614.851807 386.000000
28 267.943665 -614.827271 396.000000
29 268.707825 -614.802612 426.000000
30 269.471985 -614.777954 446.000000
31 270.236267 -614.753174 441.000000
32 271.000427 -614.728394 457.000000
33 271.764587 -614.703491 465.000000
34 272.528748 -614.678589 442.000000
35 273.293030 -614.653442 426.000000
36 260.272888 -614.147583 304.000000
37 261.036926 -614.123657 304.000000
38 261.801086 -614.099731 319.000000
39 262.565247 -614.075684 334.000000
40 263.329407 -614.051636 370.000000
41 264.093567 -614.027344 405.000000
42 264.857605 -614.003052 409.000000
43 265.621765 -613.978760 450.000000
44 266.385803 -613.954346 518.000000
45 267.149963 -613.929932 609.000000
46 267.914124 -613.905396 534.000000
47 268.678162 -613.880737 517.000000
48 269.442200 -613.856079 575.000000
49 270.206360 -613.831299 600.000000
50 270.970520 -613.806519 609.000000
51 271.734558 -613.781616 609.000000
52 272.498596 -613.756714 561.000000
53 261.008118 -613.201782 335.000000
54 261.772156 -613.177856 432.000000
55 262.536194 -613.153809 487.000000
56 263.300232 -613.129639 499.000000
57 264.064270 -613.105469 514.000000
58 264.828308 -613.081177 442.000000
59 265.592346 -613.056885 439.000000
60 266.356384 -613.032471 395.000000
61 267.120422 -613.007935 400.000000
62 267.884460 -612.983521 426.000000
63 268.648499 -612.958862 487.000000
64 269.412415 -612.934204 548.000000
65 270.176453 -612.909424 548.000000
66 270.940491 -612.884644 548.000000
67 271.704529 -612.859741 535.000000
68 261.743225 -612.255981 304.000000
69 262.507141 -612.231812 334.000000
70 263.271179 -612.207764 396.000000
71 264.035095 -612.183594 457.000000
72 264.799011 -612.159302 457.000000
73 265.563049 -612.135010 426.000000
74 266.326965 -612.110596 411.000000
75 267.090881 -612.086182 406.000000
76 267.854797 -612.061646 396.000000
77 268.618713 -612.036987 401.000000

78 269.382629 -612.012329 397.000000
79 261.714294 -611.334106 322.000000
80 262.478088 -611.309937 334.000000
81 777.710144 -1118.01306 0.00000000E+00
82 779.970764 -1115.93896 0.00000000E+00
83 780.696716 -1114.93750 0.00000000E+00
84 781.422424 -1113.93604 0.00000000E+00
85 785.606995 -1106.06689 0.00000000E+00
86 789.226868 -1101.05811 0.00000000E+00
87 789.783264 -1098.19727 0.00000000E+00
88 791.229431 -1096.19348 1.00000000
89 791.145813 -1095.26416 1.00000000
90 791.784729 -1093.33289 1.00000000
91 791.700989 -1092.40356 1.00000000
92 792.339539 -1090.47253 1.00000000
93 792.255920 -1089.54321 1.00000000
94 792.172058 -1088.61401 1.00000000
95 792.088196 -1087.68494 1.00000000
96 792.004456 -1086.75574 0.00000000E+00
97 791.920715 -1085.82666 0.00000000E+00
98 791.753235 -1083.96826 0.00000000E+00
99 792.558533 -1083.89575 1.00000000
100 792.474670 -1082.96667 1.00000000
101 791.585754 -1082.11023 0.00000000E+00
102 792.390930 -1082.03760 1.00000000
103 791.502014 -1081.18127 0.00000000E+00
104 792.307068 -1081.10864 1.00000000
105 791.418152 -1080.25220 1.00000000
106 791.334412 -1079.32324 1.00000000
107 790.445862 -1078.46667 0.00000000E+00
108 791.250549 -1078.39417 1.00000000
109 790.362244 -1077.53772 0.00000000E+00
110 791.166931 -1077.46521 1.00000000
111 790.278625 -1076.60876 0.00000000E+00
112 790.194885 -1075.67993 0.00000000E+00
113 790.111267 -1074.75098 1.00000000
114 789.223206 -1073.89453 0.00000000E+00
115 789.139709 -1072.96558 0.00000000E+00
116 788.251770 -1072.10913 0.00000000E+00
117 788.168274 -1071.18030 1.00000000
118 787.280823 -1070.32373 0.00000000E+00
119 786.393372 -1069.46704 0.00000000E+00
120 785.506165 -1068.61035 0.00000000E+00

Surface Met Station UTMs (n,x,y):

Control-file POINT Sources : 1
EMARB-file POINT Sources : 0
Control-file AREA Sources : 0
EMARB-file AREA Sources : 0
Control-file LINE Sources : 0
EMARB-file LINE Sources : 0
Control-file VOLUME Sources: 0
EMARB-file VOLUME Sources : 0

Source Names

UNIT 2

INPUT FILES

Default Name	Unit No.	File Name and Path
CALPOST.INP	5	CT_RODE_EDSI_03C_BRET.INP
MODEL.DAT	4	pu_rode_edsi_03c.flx

OUTPUT FILES

Default Name	Unit No.	File Name and Path
CALPOST.LST	8	ct_rode_edsi_03c_bret.lst

****
****

CALPOST Version 6.221 Level 080724

****
****

24HR VISIBILITY

VISIB BOESNCFG

(1/Mega-m)

START TIME Modeled Extinction by Species
Small Large SSalt
YEAR DAY HR RECEPTOR COORDINATES (km) TYPE BEXT(Model) BEXT(BKG) BEXT(Total)
%CHANGE bxSO4 bxNO3 bxOC bxEC bxPMC bxPMF bxNO2 F(RH) F(RH) F(RH)
2002 365 23 120 785.506 -1068.610 D 0.398 23.365 23.762 1.70 0.120 0.268 0.007
0.000 0.000 0.000 0.002 4.060 2.900 4.110
2003 1 23 117 788.168 -1071.180 D 0.110 23.376 23.486 0.47 0.036 0.067 0.005
0.000 0.000 0.000 0.002 4.080 2.910 4.100
2003 2 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 3 23 81 777.710 -1118.013 D 0.025 23.376 23.401 0.11 0.007 0.018 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 4 23 81 777.710 -1118.013 D 0.554 23.376 23.930 2.37 0.150 0.393 0.010
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 5 23 120 785.506 -1068.610 D 0.201 23.376 23.577 0.86 0.062 0.133 0.005
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 6 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100

2003 7 23 86 789.227 -1101.058 D 1.174 23.376 24.550 5.02 0.263 0.874 0.030
0.001 0.001 0.001 0.003 4.080 2.910 4.100
2003 8 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 9 23 81 777.710 -1118.013 D 0.074 23.376 23.450 0.32 0.020 0.051 0.002
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 10 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 11 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 12 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 13 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 14 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 15 23 86 789.227 -1101.058 D 0.052 23.376 23.428 0.22 0.013 0.036 0.002
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 16 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 17 23 81 777.710 -1118.013 D 0.251 23.376 23.628 1.07 0.062 0.184 0.005
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 18 23 120 785.506 -1068.610 D 1.286 23.376 24.663 5.50 0.300 0.942 0.035
0.001 0.001 0.002 0.005 4.080 2.910 4.100
2003 19 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 20 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 21 23 86 789.227 -1101.058 D 1.349 23.376 24.726 5.77 0.652 0.651 0.035
0.001 0.001 0.002 0.009 4.080 2.910 4.100
2003 22 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 23 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 24 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 25 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 26 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 27 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 28 23 81 777.710 -1118.013 D 0.000 23.376 23.376 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 29 23 81 777.710 -1118.013 D 0.058 23.376 23.435 0.25 0.005 0.052 0.000
0.000 0.000 0.000 0.002 4.080 2.910 4.100
2003 30 23 120 785.506 -1068.610 D 0.007 23.376 23.383 0.03 0.003 0.004 0.000
0.000 0.000 0.000 0.000 4.080 2.910 4.100
2003 31 23 120 785.506 -1068.610 D 2.076 23.376 25.453 8.88 1.123 0.901 0.042
0.001 0.001 0.002 0.006 4.080 2.910 4.100
2003 32 23 87 789.783 -1098.197 D 0.348 23.114 23.462 1.51 0.182 0.159 0.006
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 33 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 34 23 120 785.506 -1068.610 D 0.032 23.114 23.146 0.14 0.004 0.024 0.001
0.000 0.000 0.000 0.001 3.820 2.760 3.890

2003 35 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 36 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 37 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 38 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 39 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 40 23 81 777.710 -1118.013 D 0.579 23.114 23.693 2.51 0.201 0.357 0.011
0.000 0.000 0.001 0.009 3.820 2.760 3.890
2003 41 23 120 785.506 -1068.610 D 0.122 23.114 23.236 0.53 0.060 0.061 0.001
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 42 23 120 785.506 -1068.610 D 0.174 23.114 23.288 0.75 0.099 0.070 0.004
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 43 23 120 785.506 -1068.610 D 0.260 23.114 23.375 1.13 0.141 0.113 0.006
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 44 23 120 785.506 -1068.610 D 0.000 23.114 23.115 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 45 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 46 23 120 785.506 -1068.610 D 0.256 23.114 23.370 1.11 0.084 0.166 0.002
0.000 0.000 0.000 0.004 3.820 2.760 3.890
2003 47 23 81 777.710 -1118.013 D 0.029 23.114 23.144 0.13 0.008 0.020 0.001
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 48 23 81 777.710 -1118.013 D 0.002 23.114 23.117 0.01 0.001 0.001 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 49 23 120 785.506 -1068.610 D 0.000 23.114 23.115 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 50 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 51 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 52 23 87 789.783 -1098.197 D 0.071 23.114 23.185 0.31 0.032 0.035 0.002
0.000 0.000 0.000 0.001 3.820 2.760 3.890
2003 53 23 81 777.710 -1118.013 D 0.000 23.114 23.114 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 54 23 120 785.506 -1068.610 D 0.002 23.114 23.116 0.01 0.001 0.001 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 55 23 120 785.506 -1068.610 D 0.013 23.114 23.128 0.06 0.006 0.007 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 56 23 120 785.506 -1068.610 D 0.002 23.114 23.116 0.01 0.001 0.001 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 57 23 81 777.710 -1118.013 D 0.002 23.114 23.116 0.01 0.001 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 58 23 120 785.506 -1068.610 D 0.001 23.114 23.115 0.01 0.001 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 59 23 120 785.506 -1068.610 D 0.001 23.114 23.115 0.00 0.001 0.000 0.000
0.000 0.000 0.000 0.000 3.820 2.760 3.890
2003 60 23 81 777.710 -1118.013 D 0.005 23.085 23.090 0.02 0.001 0.003 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 61 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 62 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870

2003 63 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 64 23 120 785.506 -1068.610 D 0.008 23.085 23.093 0.03 0.001 0.006 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 65 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 66 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 67 23 120 785.506 -1068.610 D 0.004 23.085 23.090 0.02 0.003 0.001 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 68 23 81 777.710 -1118.013 D 0.026 23.085 23.112 0.11 0.019 0.006 0.001
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 69 23 120 785.506 -1068.610 D 0.027 23.085 23.112 0.12 0.021 0.005 0.001
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 70 23 120 785.506 -1068.610 D 0.001 23.085 23.086 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 71 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 72 23 120 785.506 -1068.610 D 0.136 23.085 23.222 0.59 0.064 0.072 0.001
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 73 23 120 785.506 -1068.610 D 0.599 23.085 23.684 2.60 0.278 0.315 0.006
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 74 23 120 785.506 -1068.610 D 0.197 23.085 23.282 0.85 0.103 0.092 0.002
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 75 23 120 785.506 -1068.610 D 0.001 23.085 23.086 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 76 23 119 786.393 -1069.467 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 77 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 78 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 79 23 96 792.004 -1086.756 D 0.727 23.085 23.812 3.15 0.327 0.353 0.038
0.001 0.001 0.002 0.005 3.790 2.740 3.870
2003 80 23 120 785.506 -1068.610 D 0.378 23.085 23.464 1.64 0.173 0.191 0.012
0.000 0.000 0.001 0.000 3.790 2.740 3.870
2003 81 23 81 777.710 -1118.013 D 1.040 23.085 24.125 4.50 0.548 0.461 0.028
0.000 0.001 0.001 0.000 3.790 2.740 3.870
2003 82 23 81 777.710 -1118.013 D 0.441 23.085 23.526 1.91 0.189 0.241 0.010
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 83 23 120 785.506 -1068.610 D 0.011 23.085 23.096 0.05 0.005 0.005 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 84 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 85 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 86 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 87 23 120 785.506 -1068.610 D 0.074 23.085 23.159 0.32 0.041 0.029 0.003
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 88 23 81 777.710 -1118.013 D 0.000 23.085 23.085 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 89 23 120 785.506 -1068.610 D 0.035 23.085 23.120 0.15 0.018 0.015 0.001
0.000 0.000 0.000 0.000 3.790 2.740 3.870
2003 90 23 120 785.506 -1068.610 D 0.110 23.085 23.196 0.48 0.039 0.068 0.002
0.000 0.000 0.000 0.000 3.790 2.740 3.870

2003 91 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 92 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 93 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 94 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 95 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 96 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 97 23 120 785.506 -1068.610 D 0.062 23.042 23.103 0.27 0.031 0.030 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 98 23 87 789.783 -1098.197 D 0.020 23.042 23.062 0.09 0.010 0.010 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 99 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 100 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 101 23 81 777.710 -1118.013 D 0.079 23.042 23.120 0.34 0.053 0.023 0.002
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 102 23 81 777.710 -1118.013 D 0.520 23.042 23.561 2.25 0.323 0.184 0.011
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 103 23 120 785.506 -1068.610 D 0.176 23.042 23.217 0.76 0.128 0.044 0.004
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 104 23 120 785.506 -1068.610 D 0.003 23.042 23.045 0.01 0.002 0.001 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 105 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 106 23 86 789.227 -1101.058 D 0.099 23.042 23.140 0.43 0.049 0.046 0.004
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 107 23 81 777.710 -1118.013 D 0.213 23.042 23.254 0.92 0.087 0.120 0.006
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 108 23 120 785.506 -1068.610 D 0.001 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 109 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 110 23 120 785.506 -1068.610 D 0.135 23.042 23.177 0.59 0.104 0.024 0.007
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 111 23 87 789.783 -1098.197 D 0.101 23.042 23.143 0.44 0.052 0.046 0.003
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 112 23 81 777.710 -1118.013 D 0.002 23.042 23.044 0.01 0.001 0.001 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 113 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 114 23 120 785.506 -1068.610 D 0.108 23.042 23.149 0.47 0.050 0.054 0.003
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 115 23 87 789.783 -1098.197 D 0.228 23.042 23.270 0.99 0.081 0.141 0.006
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 116 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 117 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 118 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850

2003 119 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 120 23 81 777.710 -1118.013 D 0.000 23.042 23.042 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.740 2.720 3.850
2003 121 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 122 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 123 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 124 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 125 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 126 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 127 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 128 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 129 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 130 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 131 23 120 785.506 -1068.610 D 0.050 23.246 23.296 0.22 0.040 0.009 0.001
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 132 23 81 777.710 -1118.013 D 0.007 23.246 23.253 0.03 0.006 0.001 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 133 23 120 785.506 -1068.610 D 0.001 23.246 23.247 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 134 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 135 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 136 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 137 23 120 785.506 -1068.610 D 0.008 23.246 23.254 0.04 0.007 0.001 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 138 23 120 785.506 -1068.610 D 0.029 23.246 23.275 0.12 0.022 0.006 0.001
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 139 23 120 785.506 -1068.610 D 0.010 23.246 23.256 0.04 0.008 0.002 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 140 23 81 777.710 -1118.013 D 0.005 23.246 23.251 0.02 0.005 0.001 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 141 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 142 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 143 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 144 23 120 785.506 -1068.610 D 0.011 23.246 23.257 0.05 0.009 0.002 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 145 23 120 785.506 -1068.610 D 0.111 23.246 23.357 0.48 0.074 0.036 0.002
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 146 23 120 785.506 -1068.610 D 0.002 23.246 23.248 0.01 0.001 0.001 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020

2003 147 23 81 777.710 -1118.013 D 0.000 23.246 23.246 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 148 23 81 777.710 -1118.013 D 0.165 23.246 23.411 0.71 0.145 0.014 0.006
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 149 23 81 777.710 -1118.013 D 0.610 23.246 23.856 2.62 0.522 0.065 0.020
0.000 0.001 0.001 0.000 3.940 2.830 4.020
2003 150 23 113 790.111 -1074.751 D 0.006 23.246 23.252 0.03 0.004 0.002 0.000
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 151 23 120 785.506 -1068.610 D 0.044 23.246 23.290 0.19 0.040 0.003 0.002
0.000 0.000 0.000 0.000 3.940 2.830 4.020
2003 152 23 120 785.506 -1068.610 D 0.005 23.442 23.447 0.02 0.004 0.002 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 153 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 154 23 120 785.506 -1068.610 D 0.048 23.442 23.490 0.20 0.042 0.004 0.001
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 155 23 120 785.506 -1068.610 D 0.013 23.442 23.455 0.05 0.009 0.003 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 156 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 157 23 120 785.506 -1068.610 D 0.009 23.442 23.451 0.04 0.006 0.003 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 158 23 87 789.783 -1098.197 D 0.038 23.442 23.480 0.16 0.030 0.007 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 159 23 120 785.506 -1068.610 D 0.030 23.442 23.472 0.13 0.026 0.004 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 160 23 120 785.506 -1068.610 D 0.005 23.442 23.447 0.02 0.004 0.001 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 161 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 162 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 163 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 164 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 165 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 166 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 167 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 168 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 169 23 120 785.506 -1068.610 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 170 23 120 785.506 -1068.610 D 0.029 23.442 23.471 0.12 0.025 0.004 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 171 23 120 785.506 -1068.610 D 0.017 23.442 23.459 0.07 0.015 0.002 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 172 23 120 785.506 -1068.610 D 0.001 23.442 23.443 0.00 0.001 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 173 23 118 787.281 -1070.324 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 174 23 119 786.393 -1069.467 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210

2003 175 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 176 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 177 23 120 785.506 -1068.610 D 0.005 23.442 23.447 0.02 0.005 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 178 23 81 777.710 -1118.013 D 0.008 23.442 23.450 0.03 0.007 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 179 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 180 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
2003 181 23 81 777.710 -1118.013 D 0.000 23.442 23.442 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.120 2.940 4.210
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0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 183 23 120 785.506 -1068.610 D 0.011 23.733 23.744 0.05 0.010 0.001 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 184 23 120 785.506 -1068.610 D 0.001 23.733 23.734 0.01 0.001 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 185 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 186 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 187 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 188 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
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2003 189 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 190 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 191 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 192 23 120 785.506 -1068.610 D 0.001 23.733 23.734 0.00 0.001 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 193 23 120 785.506 -1068.610 D 0.002 23.733 23.735 0.01 0.001 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 194 23 120 785.506 -1068.610 D 0.000 23.733 23.734 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 195 23 115 789.140 -1072.966 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 196 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 197 23 120 785.506 -1068.610 D 0.174 23.733 23.907 0.73 0.154 0.015 0.004
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 198 23 120 785.506 -1068.610 D 0.154 23.733 23.887 0.65 0.118 0.034 0.002
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 199 23 120 785.506 -1068.610 D 0.093 23.733 23.826 0.39 0.076 0.016 0.001
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2003 200 23 120 785.506 -1068.610 D 0.955 23.733 24.688 4.02 0.872 0.065 0.017
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2003 201 23 120 785.506 -1068.610 D 0.401 23.733 24.134 1.69 0.286 0.105 0.009
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 202 23 87 789.783 -1098.197 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440

2003 203 23 120 785.506 -1068.610 D 0.015 23.733 23.748 0.06 0.006 0.009 0.000
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0.000 0.000 0.000 0.000 4.410 3.100 4.440
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0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 207 23 120 785.506 -1068.610 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 208 23 120 785.506 -1068.610 D 0.003 23.733 23.736 0.01 0.002 0.001 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
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0.000 0.000 0.000 0.000 4.410 3.100 4.440
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0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 211 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 212 23 81 777.710 -1118.013 D 0.000 23.733 23.733 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.410 3.100 4.440
2003 213 23 120 785.506 -1068.610 D 0.003 23.684 23.686 0.01 0.002 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 214 23 119 786.393 -1069.467 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 215 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 216 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 217 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 218 23 120 785.506 -1068.610 D 0.090 23.684 23.774 0.38 0.059 0.029 0.002
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 219 23 81 777.710 -1118.013 D 0.087 23.684 23.771 0.37 0.057 0.028 0.002
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 220 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 221 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
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2003 222 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
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2003 223 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
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2003 224 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
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2003 225 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
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2003 227 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
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2003 228 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
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2003 232 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
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0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 234 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 235 23 119 786.393 -1069.467 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 236 23 119 786.393 -1069.467 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 237 23 119 786.393 -1069.467 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 238 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 239 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
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0.000 0.000 0.000 0.000 4.370 3.070 4.380
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0.000 0.000 0.000 0.000 4.370 3.070 4.380
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0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 243 23 81 777.710 -1118.013 D 0.000 23.684 23.684 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.370 3.070 4.380
2003 244 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 245 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 246 23 120 785.506 -1068.610 D 0.009 23.493 23.502 0.04 0.007 0.002 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 247 23 87 789.783 -1098.197 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 248 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 249 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 250 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 251 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 252 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 253 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 254 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 255 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 256 23 120 785.506 -1068.610 D 0.004 23.493 23.497 0.01 0.003 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
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0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 258 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
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2003 259 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
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2003 260 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
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2003 261 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
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2003 263 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
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0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 265 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
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0.000 0.000 0.000 0.000 4.180 2.970 4.230
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0.000 0.000 0.000 0.000 4.180 2.970 4.230
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0.000 0.000 0.000 0.000 4.180 2.970 4.230
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0.000 0.000 0.000 0.000 4.180 2.970 4.230
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2003 273 23 81 777.710 -1118.013 D 0.000 23.493 23.493 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.180 2.970 4.230
2003 274 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 275 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 276 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 277 23 120 785.506 -1068.610 D 0.000 23.221 23.222 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 278 23 120 785.506 -1068.610 D 0.002 23.221 23.223 0.01 0.002 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 279 23 120 785.506 -1068.610 D 0.001 23.221 23.222 0.00 0.001 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 280 23 91 791.701 -1092.404 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 281 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
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2003 282 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 283 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
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2003 284 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
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2003 285 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
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0.000 0.000 0.000 0.000 3.920 2.820 3.990

2003 287 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 288 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
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0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 290 23 120 785.506 -1068.610 D 0.188 23.221 23.409 0.81 0.075 0.109 0.004
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 291 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 292 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 293 23 120 785.506 -1068.610 D 1.237 23.221 24.458 5.33 0.888 0.288 0.055
0.001 0.002 0.002 0.000 3.920 2.820 3.990
2003 294 23 81 777.710 -1118.013 D 0.339 23.221 23.561 1.46 0.120 0.202 0.015
0.000 0.000 0.001 0.001 3.920 2.820 3.990
2003 295 23 87 789.783 -1098.197 D 0.103 23.221 23.324 0.44 0.027 0.072 0.003
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 296 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 297 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 298 23 120 785.506 -1068.610 D 0.001 23.221 23.222 0.00 0.000 0.001 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 299 23 81 777.710 -1118.013 D 0.200 23.221 23.421 0.86 0.092 0.106 0.001
0.000 0.000 0.000 0.001 3.920 2.820 3.990
2003 300 23 120 785.506 -1068.610 D 0.064 23.221 23.285 0.27 0.025 0.037 0.002
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 301 23 120 785.506 -1068.610 D 1.049 23.221 24.271 4.52 0.551 0.462 0.033
0.001 0.001 0.002 0.000 3.920 2.820 3.990
2003 302 23 120 785.506 -1068.610 D 0.000 23.221 23.222 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 303 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 304 23 81 777.710 -1118.013 D 0.000 23.221 23.221 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.920 2.820 3.990
2003 305 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 306 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 307 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 308 23 81 777.710 -1118.013 D 0.000 23.235 23.236 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 309 23 120 785.506 -1068.610 D 0.854 23.235 24.090 3.68 0.582 0.238 0.032
0.001 0.001 0.001 0.000 3.930 2.830 4.010
2003 310 23 87 789.783 -1098.197 D 0.789 23.235 24.025 3.40 0.397 0.372 0.019
0.000 0.001 0.001 0.000 3.930 2.830 4.010
2003 311 23 87 789.783 -1098.197 D 0.020 23.235 23.255 0.09 0.010 0.010 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 312 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 313 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 314 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010

2003 315 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 316 23 120 785.506 -1068.610 D 0.120 23.235 23.355 0.52 0.028 0.086 0.004
0.000 0.000 0.000 0.001 3.930 2.830 4.010
2003 317 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 318 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 319 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 320 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 321 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 322 23 87 789.783 -1098.197 D 0.040 23.235 23.275 0.17 0.003 0.032 0.002
0.000 0.000 0.000 0.002 3.930 2.830 4.010
2003 323 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 324 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 325 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 326 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 327 23 120 785.506 -1068.610 D 0.018 23.235 23.253 0.08 0.000 0.016 0.000
0.000 0.000 0.000 0.002 3.930 2.830 4.010
2003 328 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 329 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 330 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 331 23 120 785.506 -1068.610 D 0.098 23.235 23.333 0.42 0.019 0.073 0.001
0.000 0.000 0.000 0.004 3.930 2.830 4.010
2003 332 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 333 23 81 777.710 -1118.013 D 0.000 23.235 23.235 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 334 23 120 785.506 -1068.610 D 0.101 23.235 23.336 0.43 0.054 0.043 0.003
0.000 0.000 0.000 0.000 3.930 2.830 4.010
2003 335 23 81 777.710 -1118.013 D 0.010 23.365 23.374 0.04 0.004 0.005 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 336 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 337 23 120 785.506 -1068.610 D 0.203 23.365 23.568 0.87 0.099 0.100 0.004
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 338 23 81 777.710 -1118.013 D 0.190 23.365 23.555 0.81 0.088 0.097 0.004
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 339 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 340 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 341 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 342 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110

2003 343 23 120 785.506 -1068.610 D 0.224 23.365 23.589 0.96 0.061 0.144 0.014
0.000 0.000 0.001 0.004 4.060 2.900 4.110
2003 344 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 345 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 346 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 347 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 348 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 349 23 120 785.506 -1068.610 D 0.069 23.365 23.434 0.30 0.033 0.032 0.003
0.000 0.000 0.000 0.001 4.060 2.900 4.110
2003 350 23 81 777.710 -1118.013 D 0.002 23.365 23.367 0.01 0.001 0.001 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 351 23 120 785.506 -1068.610 D 0.358 23.365 23.723 1.53 0.122 0.218 0.015
0.000 0.000 0.001 0.001 4.060 2.900 4.110
2003 352 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 353 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 354 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 355 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 356 23 117 788.168 -1071.180 D 0.174 23.365 23.539 0.75 0.069 0.101 0.002
0.000 0.000 0.000 0.002 4.060 2.900 4.110
2003 357 23 104 792.307 -1081.109 D 0.037 23.365 23.402 0.16 0.012 0.024 0.000
0.000 0.000 0.000 0.001 4.060 2.900 4.110
2003 358 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 359 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 360 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 361 23 81 777.710 -1118.013 D 0.000 23.365 23.365 0.00 0.000 0.000 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110
2003 362 23 81 777.710 -1118.013 D 0.070 23.365 23.434 0.30 0.019 0.050 0.000
0.000 0.000 0.000 0.001 4.060 2.900 4.110
2003 363 23 88 791.229 -1096.193 D 0.001 23.365 23.366 0.00 0.000 0.001 0.000
0.000 0.000 0.000 0.000 4.060 2.900 4.110

--- Ranked Daily Visibility Change ---
START TIME Modeled Extinction by Species
Small Large SSalt
YEAR DAY HR RECEPTOR COORDINATES (km) TYPE BEXT(Model) BEXT(BKG) BEXT(Total)
%CHANGE bxSO4 bxNO3 bxOC bxEC bxPMC bxPMF bxNO2 F(RH) F(RH) F(RH)
2003 31 23 120 785.506 -1068.610 D 2.076 23.376 25.453 8.88 1.123 0.901 0.042
0.001 0.001 0.002 0.006 4.080 2.910 4.100 1
2003 21 23 86 789.227 -1101.058 D 1.349 23.376 24.726 5.77 0.652 0.651 0.035
0.001 0.001 0.002 0.009 4.080 2.910 4.100 2
2003 18 23 120 785.506 -1068.610 D 1.286 23.376 24.663 5.50 0.300 0.942 0.035
0.001 0.001 0.002 0.005 4.080 2.910 4.100 3
2003 293 23 120 785.506 -1068.610 D 1.237 23.221 24.458 5.33 0.888 0.288 0.055

```
0.001  0.002  0.002  0.000  3.920 2.820 3.990    4
2003   7 23    86       789.227 -1101.058   D     1.174     23.376     24.550     5.02   0.263  0.874  0.030
0.001  0.001  0.001  0.003  4.080 2.910 4.100    5
2003 301 23   120       785.506 -1068.610   D     1.049     23.221     24.271     4.52   0.551  0.462  0.033
0.001  0.001  0.002  0.000  3.920 2.820 3.990    6
2003  81 23    81       777.710 -1118.013   D     1.040     23.085     24.125     4.50   0.548  0.461  0.028
0.000  0.001  0.001  0.000  3.790 2.740 3.870    7
2003 200 23   120       785.506 -1068.610   D     0.955     23.733     24.688     4.02   0.872  0.065  0.017
0.000  0.000  0.001  0.000  4.410 3.100 4.440    8
2003 309 23   120       785.506 -1068.610   D     0.854     23.235     24.090     3.68   0.582  0.238  0.032
0.001  0.001  0.001  0.000  3.930 2.830 4.010    9
2003 310 23    87       789.783 -1098.197   D     0.789     23.235     24.025     3.40   0.397  0.372  0.019
0.000  0.001  0.001  0.000  3.930 2.830 4.010   10
2003  79 23    96       792.004 -1086.756   D     0.727     23.085     23.812     3.15   0.327  0.353  0.038
0.001  0.001  0.002  0.005  3.790 2.740 3.870   11
2003 149 23    81       777.710 -1118.013   D     0.610     23.246     23.856     2.62   0.522  0.065  0.020
0.000  0.001  0.001  0.000  3.940 2.830 4.020   12
2003  73 23   120       785.506 -1068.610   D     0.599     23.085     23.684     2.60   0.278  0.315  0.006
0.000  0.000  0.000  0.000  3.790 2.740 3.870   13
2003  40 23    81       777.710 -1118.013   D     0.579     23.114     23.693     2.51   0.201  0.357  0.011
0.000  0.000  0.001  0.009  3.820 2.760 3.890   14
2003   4 23    81       777.710 -1118.013   D     0.554     23.376     23.930     2.37   0.150  0.393  0.010
0.000  0.000  0.000  0.000  4.080 2.910 4.100   15
2003 102 23    81       777.710 -1118.013   D     0.520     23.042     23.561     2.25   0.323  0.184  0.011
0.000  0.000  0.000  0.000  3.740 2.720 3.850   16
2003  82 23    81       777.710 -1118.013   D     0.441     23.085     23.526     1.91   0.189  0.241  0.010
0.000  0.000  0.000  0.000  3.790 2.740 3.870   17
2002 365 23   120       785.506 -1068.610   D     0.398     23.365     23.762     1.70   0.120  0.268  0.007
0.000  0.000  0.000  0.002  4.060 2.900 4.110   18
2003 201 23   120       785.506 -1068.610   D     0.401     23.733     24.134     1.69   0.286  0.105  0.009
0.000  0.000  0.000  0.000  4.410 3.100 4.440   19
2003  80 23   120       785.506 -1068.610   D     0.378     23.085     23.464     1.64   0.173  0.191  0.012
0.000  0.000  0.001  0.000  3.790 2.740 3.870   20
2003 351 23   120       785.506 -1068.610   D     0.358     23.365     23.723     1.53   0.122  0.218  0.015
0.000  0.000  0.001  0.001  4.060 2.900 4.110   21
2003  32 23    87       789.783 -1098.197   D     0.348     23.114     23.462     1.51   0.182  0.159  0.006
0.000  0.000  0.000  0.000  3.820 2.760 3.890   22

 --- Number of days with Extinction Change  =>   5.0 % :        5
 --- Number of days with Extinction Change  =>  10.0 % :        0
 ---            Largest Extinction Change  =              8.88 %

*****************************************************************************************************************************
**********
                                    CALPOST  Version 6.221        Level 080724
*****************************************************************************************************************************
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                                    Run-Length VISIBILITY


                                      VISIB  BOESNCFG


                                      (1/Mega-m)
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RECEPTOR COORDINATES (km) TYPE BEXT(Model) BEXT(BKG) BEXT(Total) %CHANGE

120 785.506 -1068.610 D 0.062 23.339 23.401 0.27

--- Number of recs with Extinction Change > 1.0 % : 0
--- Largest Extinction Change = 0.27 %

****
****
CALPOST Version 6.221 Level 080724
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****

24HR VISIBILITY

VISIB BOESNCFG

(deciview)

START TIME % of Modeled Extinction by Species
Small Large SSalt
YEAR DAY HR RECEPTOR COORDINATES (km) TYPE DV(Total) DV(BKG) DELTA DV %_SO4 %_NO3 %_OC %_EC %_PMC %_PMF %_NO2 F(RH) F(RH) F(RH)
2002 365 23 120 785.506 -1068.610 D 8.655 8.486 0.169 30.21 67.39 1.82 0.03 0.05 0.08 0.42 4.060 2.900 4.110
2003 1 23 117 788.168 -1071.180 D 8.538 8.491 0.047 32.68 60.81 4.64 0.08 0.13 0.21 1.46 4.080 2.910 4.100
2003 2 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.080 2.910 4.100
2003 3 23 81 777.710 -1118.013 D 8.502 8.491 0.011 26.27 71.63 1.89 0.03 0.05 0.09 0.04 4.080 2.910 4.100
2003 4 23 81 777.710 -1118.013 D 8.726 8.491 0.234 27.02 70.97 1.79 0.03 0.05 0.08 0.05 4.080 2.910 4.100
2003 5 23 120 785.506 -1068.610 D 8.577 8.491 0.086 30.69 66.30 2.71 0.05 0.08 0.12 0.06 4.080 2.910 4.100
2003 6 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.080 2.910 4.100
2003 7 23 86 789.227 -1101.058 D 8.981 8.491 0.490 22.42 74.46 2.59 0.05 0.07 0.12 0.29 4.080 2.910 4.100
2003 8 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.080 2.910 4.100
2003 9 23 81 777.710 -1118.013 D 8.523 8.491 0.031 27.29 69.00 2.82 0.05 0.08 0.13 0.63 4.080 2.910 4.100
2003 10 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.080 2.910 4.100
2003 11 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.080 2.910 4.100
2003 12 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.080 2.910 4.100

2003 13 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 14 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 15 23 86 789.227 -1101.058 D 8.514 8.491 0.022 25.16 69.51 4.16 0.07 0.12
0.19 0.80 4.080 2.910 4.100
2003 16 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 17 23 81 777.710 -1118.013 D 8.598 8.491 0.107 24.61 73.32 1.88 0.03 0.05
0.09 0.02 4.080 2.910 4.100
2003 18 23 120 785.506 -1068.610 D 9.027 8.491 0.536 23.35 73.25 2.75 0.05
0.08 0.12 0.40 4.080 2.910 4.100
2003 19 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 20 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 21 23 86 789.227 -1101.058 D 9.053 8.491 0.561 48.29 48.27 2.56 0.04 0.07
0.12 0.65 4.080 2.910 4.100
2003 22 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 23 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 24 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 25 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 26 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 27 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 28 23 81 777.710 -1118.013 D 8.491 8.491 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.080 2.910 4.100
2003 29 23 81 777.710 -1118.013 D 8.516 8.491 0.025 8.39 88.68 0.01 0.00 0.00
0.00 2.93 4.080 2.910 4.100
2003 30 23 120 785.506 -1068.610 D 8.494 8.491 0.003 37.65 60.27 1.37 0.02
0.04 0.06 0.59 4.080 2.910 4.100
2003 31 23 120 785.506 -1068.610 D 9.342 8.491 0.851 54.08 43.40 2.04 0.04
0.06 0.09 0.31 4.080 2.910 4.100
2003 32 23 87 789.783 -1098.197 D 8.528 8.379 0.149 52.36 45.71 1.77 0.03 0.05
0.08 0.01 3.820 2.760 3.890
2003 33 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 34 23 120 785.506 -1068.610 D 8.392 8.379 0.014 14.28 76.42 4.38 0.08
0.12 0.20 4.53 3.820 2.760 3.890
2003 35 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 36 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 37 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 38 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 39 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 40 23 81 777.710 -1118.013 D 8.626 8.379 0.247 34.69 61.58 1.94 0.03 0.05
0.09 1.62 3.820 2.760 3.890

2003 41 23 120 785.506 -1068.610 D 8.431 8.379 0.052 49.57 49.92 0.43 0.01
0.01 0.02 0.03 3.820 2.760 3.890
2003 42 23 120 785.506 -1068.610 D 8.454 8.379 0.075 57.05 40.48 2.26 0.04
0.06 0.10 0.00 3.820 2.760 3.890
2003 43 23 120 785.506 -1068.610 D 8.491 8.379 0.112 54.10 43.32 2.36 0.04
0.07 0.11 0.00 3.820 2.760 3.890
2003 44 23 120 785.506 -1068.610 D 8.379 8.379 0.000 65.38 32.02 2.18 0.04
0.06 0.10 0.00 3.820 2.760 3.890
2003 45 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 46 23 120 785.506 -1068.610 D 8.489 8.379 0.110 32.70 64.72 0.88 0.02
0.02 0.04 1.62 3.820 2.760 3.890
2003 47 23 81 777.710 -1118.013 D 8.391 8.379 0.013 28.61 68.19 2.49 0.04 0.07
0.11 0.49 3.820 2.760 3.890
2003 48 23 81 777.710 -1118.013 D 8.380 8.379 0.001 39.03 58.15 2.55 0.04 0.07
0.12 0.06 3.820 2.760 3.890
2003 49 23 120 785.506 -1068.610 D 8.379 8.379 0.000 42.97 54.79 2.21 0.04
0.06 0.10 0.01 3.820 2.760 3.890
2003 50 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 51 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 52 23 87 789.783 -1098.197 D 8.409 8.379 0.031 45.79 49.36 3.49 0.06 0.10
0.16 1.05 3.820 2.760 3.890
2003 53 23 81 777.710 -1118.013 D 8.379 8.379 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.820 2.760 3.890
2003 54 23 120 785.506 -1068.610 D 8.379 8.379 0.001 35.19 61.71 2.79 0.05
0.08 0.13 0.02 3.820 2.760 3.890
2003 55 23 120 785.506 -1068.610 D 8.384 8.379 0.006 45.10 52.21 2.46 0.04
0.07 0.11 0.01 3.820 2.760 3.890
2003 56 23 120 785.506 -1068.610 D 8.379 8.379 0.001 40.81 57.10 1.88 0.03
0.05 0.08 0.00 3.820 2.760 3.890
2003 57 23 81 777.710 -1118.013 D 8.379 8.379 0.001 75.93 23.25 0.77 0.01 0.02
0.03 0.01 3.820 2.760 3.890
2003 58 23 120 785.506 -1068.610 D 8.379 8.379 0.001 83.24 16.25 0.50 0.01
0.01 0.02 0.01 3.820 2.760 3.890
2003 59 23 120 785.506 -1068.610 D 8.379 8.379 0.000 87.65 11.93 0.34 0.01
0.01 0.02 0.00 3.820 2.760 3.890
2003 60 23 81 777.710 -1118.013 D 8.368 8.366 0.002 30.37 64.67 2.97 0.05 0.08
0.13 1.72 3.790 2.740 3.870
2003 61 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 62 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 63 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 64 23 120 785.506 -1068.610 D 8.370 8.366 0.003 14.28 82.22 0.02 0.00
0.00 0.00 3.47 3.790 2.740 3.870
2003 65 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 75.00 0.00 0.00 0.00
0.00 10.50 3.790 2.740 3.870
2003 66 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 67 23 120 785.506 -1068.610 D 8.368 8.366 0.002 68.53 28.40 2.81 0.05
0.08 0.13 0.00 3.790 2.740 3.870
2003 68 23 81 777.710 -1118.013 D 8.378 8.366 0.011 73.49 23.58 2.69 0.05 0.08
0.12 0.00 3.790 2.740 3.870

2003 69 23 120 785.506 -1068.610 D 8.378 8.366 0.012 78.72 18.50 2.55 0.04
0.07 0.12 0.00 3.790 2.740 3.870
2003 70 23 120 785.506 -1068.610 D 8.366 8.366 0.000 75.12 22.55 2.22 0.04
0.06 0.10 0.00 3.790 2.740 3.870
2003 71 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 72 23 120 785.506 -1068.610 D 8.425 8.366 0.059 46.73 52.43 0.68 0.01
0.02 0.03 0.09 3.790 2.740 3.870
2003 73 23 120 785.506 -1068.610 D 8.622 8.366 0.256 46.35 52.62 0.92 0.02
0.03 0.04 0.02 3.790 2.740 3.870
2003 74 23 120 785.506 -1068.610 D 8.451 8.366 0.085 52.29 46.53 1.08 0.02
0.03 0.05 0.00 3.790 2.740 3.870
2003 75 23 120 785.506 -1068.610 D 8.366 8.366 0.000 71.56 27.77 0.60 0.01
0.02 0.03 0.00 3.790 2.740 3.870
2003 76 23 119 786.393 -1069.467 D 8.366 8.366 0.000 64.29 33.48 0.00 0.01
0.02 0.03 0.00 3.790 2.740 3.870
2003 77 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 78 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 79 23 96 792.004 -1086.756 D 8.676 8.366 0.310 45.03 48.60 5.23 0.09 0.15
0.24 0.66 3.790 2.740 3.870
2003 80 23 120 785.506 -1068.610 D 8.529 8.366 0.163 45.78 50.60 3.30 0.06
0.09 0.15 0.01 3.790 2.740 3.870
2003 81 23 81 777.710 -1118.013 D 8.807 8.366 0.441 52.71 44.38 2.67 0.05 0.08
0.12 0.00 3.790 2.740 3.870
2003 82 23 81 777.710 -1118.013 D 8.555 8.366 0.189 42.86 54.59 2.33 0.04 0.07
0.11 0.00 3.790 2.740 3.870
2003 83 23 120 785.506 -1068.610 D 8.371 8.366 0.005 50.29 47.52 2.00 0.03
0.06 0.09 0.00 3.790 2.740 3.870
2003 84 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 85 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 86 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 87 23 120 785.506 -1068.610 D 8.398 8.366 0.032 55.03 39.94 4.44 0.08
0.13 0.20 0.19 3.790 2.740 3.870
2003 88 23 81 777.710 -1118.013 D 8.366 8.366 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.790 2.740 3.870
2003 89 23 120 785.506 -1068.610 D 8.381 8.366 0.015 51.99 44.57 3.15 0.05
0.09 0.14 0.00 3.790 2.740 3.870
2003 90 23 120 785.506 -1068.610 D 8.414 8.366 0.048 35.80 62.10 1.92 0.03
0.05 0.09 0.00 3.790 2.740 3.870
2003 91 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 92 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 93 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 94 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 95 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 96 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850

2003 97 23 120 785.506 -1068.610 D 8.374 8.347 0.027 50.38 48.81 0.73 0.01
0.02 0.03 0.01 3.740 2.720 3.850
2003 98 23 87 789.783 -1098.197 D 8.356 8.347 0.009 50.97 48.19 0.77 0.01 0.02
0.03 0.00 3.740 2.720 3.850
2003 99 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 100 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 101 23 81 777.710 -1118.013 D 8.381 8.347 0.034 67.78 29.64 2.36 0.04
0.07 0.11 0.00 3.740 2.720 3.850
2003 102 23 81 777.710 -1118.013 D 8.570 8.347 0.223 62.24 35.47 2.10 0.04
0.06 0.09 0.00 3.740 2.720 3.850
2003 103 23 120 785.506 -1068.610 D 8.423 8.347 0.076 72.92 24.89 2.01 0.04
0.06 0.09 0.00 3.740 2.720 3.850
2003 104 23 120 785.506 -1068.610 D 8.349 8.347 0.001 66.08 32.23 1.55 0.03
0.04 0.07 0.00 3.740 2.720 3.850
2003 105 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 106 23 86 789.227 -1101.058 D 8.390 8.347 0.043 49.33 46.78 3.56 0.06
0.10 0.16 0.00 3.740 2.720 3.850
2003 107 23 81 777.710 -1118.013 D 8.439 8.347 0.092 40.68 56.25 2.81 0.05
0.08 0.13 0.00 3.740 2.720 3.850
2003 108 23 120 785.506 -1068.610 D 8.347 8.347 0.000 59.63 37.85 2.40 0.04
0.07 0.11 0.00 3.740 2.720 3.850
2003 109 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 110 23 120 785.506 -1068.610 D 8.406 8.347 0.059 76.73 17.50 5.24 0.09
0.15 0.24 0.05 3.740 2.720 3.850
2003 111 23 87 789.783 -1098.197 D 8.391 8.347 0.044 51.44 45.38 2.90 0.05
0.08 0.13 0.01 3.740 2.720 3.850
2003 112 23 81 777.710 -1118.013 D 8.348 8.347 0.001 49.20 48.14 2.41 0.04
0.07 0.11 0.00 3.740 2.720 3.850
2003 113 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 114 23 120 785.506 -1068.610 D 8.394 8.347 0.047 46.73 49.97 3.02 0.05
0.09 0.14 0.00 3.740 2.720 3.850
2003 115 23 87 789.783 -1098.197 D 8.446 8.347 0.098 35.45 61.88 2.44 0.04
0.07 0.11 0.00 3.740 2.720 3.850
2003 116 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 117 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 118 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 119 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 120 23 81 777.710 -1118.013 D 8.347 8.347 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.740 2.720 3.850
2003 121 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 122 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 123 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 124 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020

2003 125 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 126 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 127 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 128 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 129 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 130 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 131 23 120 785.506 -1068.610 D 8.457 8.435 0.022 80.48 17.63 1.73 0.03
0.05 0.08 0.00 3.940 2.830 4.020
2003 132 23 81 777.710 -1118.013 D 8.439 8.435 0.003 79.18 19.40 1.30 0.02
0.04 0.06 0.00 3.940 2.830 4.020
2003 133 23 120 785.506 -1068.610 D 8.436 8.435 0.000 71.35 27.79 0.86 0.02
0.03 0.04 0.00 3.940 2.830 4.020
2003 134 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 135 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 136 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 137 23 120 785.506 -1068.610 D 8.439 8.435 0.004 86.86 9.41 3.43 0.06
0.10 0.16 0.00 3.940 2.830 4.020
2003 138 23 120 785.506 -1068.610 D 8.448 8.435 0.012 75.91 21.13 2.72 0.05
0.08 0.12 0.00 3.940 2.830 4.020
2003 139 23 120 785.506 -1068.610 D 8.440 8.435 0.004 79.16 18.82 1.85 0.03
0.05 0.08 0.00 3.940 2.830 4.020
2003 140 23 81 777.710 -1118.013 D 8.438 8.435 0.002 84.75 13.32 1.77 0.03
0.05 0.08 0.00 3.940 2.830 4.020
2003 141 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 142 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 143 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 144 23 120 785.506 -1068.610 D 8.440 8.435 0.005 82.80 14.77 2.23 0.04
0.06 0.10 0.00 3.940 2.830 4.020
2003 145 23 120 785.506 -1068.610 D 8.483 8.435 0.048 66.19 32.06 1.61 0.03
0.05 0.07 0.00 3.940 2.830 4.020
2003 146 23 120 785.506 -1068.610 D 8.436 8.435 0.001 66.03 33.04 0.80 0.01
0.02 0.04 0.03 3.940 2.830 4.020
2003 147 23 81 777.710 -1118.013 D 8.435 8.435 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.940 2.830 4.020
2003 148 23 81 777.710 -1118.013 D 8.506 8.435 0.071 87.71 8.33 3.63 0.06 0.10
0.16 0.00 3.940 2.830 4.020
2003 149 23 81 777.710 -1118.013 D 8.694 8.435 0.259 85.71 10.71 3.29 0.06
0.09 0.15 0.00 3.940 2.830 4.020
2003 150 23 113 790.111 -1074.751 D 8.438 8.435 0.003 60.28 37.60 1.94 0.03
0.05 0.09 0.00 3.940 2.830 4.020
2003 151 23 120 785.506 -1068.610 D 8.455 8.435 0.019 90.34 5.87 3.47 0.06
0.10 0.16 0.00 3.940 2.830 4.020
2003 152 23 120 785.506 -1068.610 D 8.522 8.519 0.002 67.10 30.57 2.12 0.04
0.06 0.10 0.00 4.120 2.940 4.210

2003 153 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 154 23 120 785.506 -1068.610 D 8.540 8.519 0.020 88.70 8.28 2.76 0.05
0.08 0.12 0.00 4.120 2.940 4.210
2003 155 23 120 785.506 -1068.610 D 8.525 8.519 0.005 71.80 26.03 1.99 0.03
0.06 0.09 0.00 4.120 2.940 4.210
2003 156 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 157 23 120 785.506 -1068.610 D 8.523 8.519 0.004 62.93 35.84 1.13 0.02
0.03 0.05 0.00 4.120 2.940 4.210
2003 158 23 87 789.783 -1098.197 D 8.536 8.519 0.016 79.48 19.31 1.12 0.02
0.03 0.05 0.00 4.120 2.940 4.210
2003 159 23 120 785.506 -1068.610 D 8.532 8.519 0.013 85.96 13.02 0.93 0.02
0.03 0.04 0.00 4.120 2.940 4.210
2003 160 23 120 785.506 -1068.610 D 8.521 8.519 0.002 86.44 12.78 0.72 0.01
0.02 0.03 0.00 4.120 2.940 4.210
2003 161 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 162 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 163 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 164 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 165 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 166 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 167 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 168 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 169 23 120 785.506 -1068.610 D 8.519 8.519 0.000 87.50 10.51 0.00 0.00
0.00 0.00 0.00 4.120 2.940 4.210
2003 170 23 120 785.506 -1068.610 D 8.532 8.519 0.012 86.72 12.63 0.60 0.01
0.02 0.03 0.00 4.120 2.940 4.210
2003 171 23 120 785.506 -1068.610 D 8.527 8.519 0.007 85.63 13.77 0.55 0.01
0.02 0.02 0.00 4.120 2.940 4.210
2003 172 23 120 785.506 -1068.610 D 8.520 8.519 0.000 92.43 7.27 0.30 0.01
0.01 0.01 0.00 4.120 2.940 4.210
2003 173 23 118 787.281 -1070.324 D 8.519 8.519 0.000 95.45 3.50 0.00 0.00
0.00 0.00 0.00 4.120 2.940 4.210
2003 174 23 119 786.393 -1069.467 D 8.519 8.519 0.000 92.05 3.41 0.00 0.00
0.00 0.00 0.00 4.120 2.940 4.210
2003 175 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 176 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 177 23 120 785.506 -1068.610 D 8.522 8.519 0.002 96.52 3.39 0.09 0.00
0.00 0.00 0.01 4.120 2.940 4.210
2003 178 23 81 777.710 -1118.013 D 8.523 8.519 0.003 93.54 6.31 0.14 0.00 0.00
0.01 0.00 4.120 2.940 4.210
2003 179 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 180 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210

2003 181 23 81 777.710 -1118.013 D 8.519 8.519 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.120 2.940 4.210
2003 182 23 81 777.710 -1118.013 D 8.647 8.643 0.004 55.66 42.48 1.70 0.03
0.05 0.08 0.00 4.410 3.100 4.440
2003 183 23 120 785.506 -1068.610 D 8.648 8.643 0.005 86.73 11.04 2.04 0.04
0.06 0.09 0.00 4.410 3.100 4.440
2003 184 23 120 785.506 -1068.610 D 8.643 8.643 0.001 73.08 25.40 1.33 0.02
0.04 0.06 0.00 4.410 3.100 4.440
2003 185 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 186 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 187 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 188 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 189 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 190 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 191 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 192 23 120 785.506 -1068.610 D 8.643 8.643 0.000 99.15 0.57 0.32 0.01
0.01 0.01 0.01 4.410 3.100 4.440
2003 193 23 120 785.506 -1068.610 D 8.643 8.643 0.001 96.03 3.74 0.25 0.00
0.01 0.01 0.00 4.410 3.100 4.440
2003 194 23 120 785.506 -1068.610 D 8.643 8.643 0.000 79.99 19.89 0.30 0.00
0.01 0.01 0.00 4.410 3.100 4.440
2003 195 23 115 789.140 -1072.966 D 8.643 8.643 0.000 50.00 6.25 0.00 0.00
0.00 0.01 0.00 4.410 3.100 4.440
2003 196 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 197 23 120 785.506 -1068.610 D 8.716 8.643 0.073 88.69 8.64 2.45 0.04
0.07 0.11 0.00 4.410 3.100 4.440
2003 198 23 120 785.506 -1068.610 D 8.707 8.643 0.065 76.80 21.83 1.25 0.02
0.04 0.06 0.00 4.410 3.100 4.440
2003 199 23 120 785.506 -1068.610 D 8.682 8.643 0.039 81.68 17.57 0.68 0.01
0.02 0.03 0.00 4.410 3.100 4.440
2003 200 23 120 785.506 -1068.610 D 9.037 8.643 0.394 91.29 6.76 1.76 0.03
0.05 0.08 0.02 4.410 3.100 4.440
2003 201 23 120 785.506 -1068.610 D 8.810 8.643 0.167 71.26 26.23 2.30 0.04
0.06 0.10 0.01 4.410 3.100 4.440
2003 202 23 87 789.783 -1098.197 D 8.643 8.643 0.000 93.89 5.71 0.82 0.01 0.02
0.04 0.00 4.410 3.100 4.440
2003 203 23 120 785.506 -1068.610 D 8.649 8.643 0.006 39.03 60.58 0.28 0.00
0.01 0.01 0.09 4.410 3.100 4.440
2003 204 23 120 785.506 -1068.610 D 8.684 8.643 0.042 52.57 46.90 0.42 0.01
0.01 0.02 0.07 4.410 3.100 4.440
2003 205 23 120 785.506 -1068.610 D 8.650 8.643 0.007 76.13 23.09 0.72 0.01
0.02 0.03 0.00 4.410 3.100 4.440
2003 206 23 120 785.506 -1068.610 D 8.643 8.643 0.000 77.93 21.33 0.66 0.01
0.02 0.03 0.00 4.410 3.100 4.440
2003 207 23 120 785.506 -1068.610 D 8.643 8.643 0.000 85.69 13.92 0.63 0.01
0.02 0.03 0.00 4.410 3.100 4.440
2003 208 23 120 785.506 -1068.610 D 8.644 8.643 0.001 75.31 22.06 2.40 0.04
0.07 0.11 0.00 4.410 3.100 4.440

2003 209 23 120 785.506 -1068.610 D 8.669 8.643 0.026 78.64 18.58 2.54 0.04
0.07 0.12 0.00 4.410 3.100 4.440
2003 210 23 120 785.506 -1068.610 D 8.643 8.643 0.000 53.48 45.68 0.56 0.01
0.01 0.02 0.00 4.410 3.100 4.440
2003 211 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 212 23 81 777.710 -1118.013 D 8.643 8.643 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.410 3.100 4.440
2003 213 23 120 785.506 -1068.610 D 8.623 8.622 0.001 86.65 10.99 2.15 0.04
0.06 0.10 0.00 4.370 3.070 4.380
2003 214 23 119 786.393 -1069.467 D 8.622 8.622 0.000 77.78 19.79 0.00 0.01
0.01 0.02 0.00 4.370 3.070 4.380
2003 215 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 216 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 217 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 218 23 120 785.506 -1068.610 D 8.660 8.622 0.038 65.57 31.65 2.51 0.04
0.07 0.11 0.05 4.370 3.070 4.380
2003 219 23 81 777.710 -1118.013 D 8.659 8.622 0.037 65.24 31.97 2.53 0.04
0.07 0.11 0.03 4.370 3.070 4.380
2003 220 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 221 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 222 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 223 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 224 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 225 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 226 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 227 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 228 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 229 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 230 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 231 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 232 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 233 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 234 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 235 23 119 786.393 -1069.467 D 8.622 8.622 0.000 90.48 7.89 1.79 0.03
0.04 0.07 0.00 4.370 3.070 4.380
2003 236 23 119 786.393 -1069.467 D 8.622 8.622 0.000 96.43 0.00 3.57 0.03
0.05 0.08 0.00 4.370 3.070 4.380

2003 237 23 119 786.393 -1069.467 D 8.622 8.622 0.000 93.27 2.88 1.92 0.03
0.05 0.07 0.00 4.370 3.070 4.380
2003 238 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 239 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 240 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 241 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 242 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 243 23 81 777.710 -1118.013 D 8.622 8.622 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.370 3.070 4.380
2003 244 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 245 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 246 23 120 785.506 -1068.610 D 8.545 8.541 0.004 80.41 18.33 1.14 0.02
0.03 0.05 0.02 4.180 2.970 4.230
2003 247 23 87 789.783 -1098.197 D 8.541 8.541 0.000 66.71 32.46 0.51 0.01
0.02 0.02 0.02 4.180 2.970 4.230
2003 248 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 249 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 250 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 251 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 252 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 253 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 254 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 255 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 256 23 120 785.506 -1068.610 D 8.543 8.541 0.001 95.37 4.55 0.07 0.00
0.00 0.00 0.01 4.180 2.970 4.230
2003 257 23 81 777.710 -1118.013 D 8.542 8.541 0.000 96.80 3.08 0.06 0.00 0.00
0.00 0.01 4.180 2.970 4.230
2003 258 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 259 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 260 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 261 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 262 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 263 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 264 23 81 777.710 -1118.013 D 8.546 8.541 0.004 89.79 8.10 1.22 0.02 0.03
0.06 0.78 4.180 2.970 4.230

2003 265 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 266 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 267 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 268 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 269 23 120 785.506 -1068.610 D 8.549 8.541 0.008 72.12 25.62 2.07 0.04
0.06 0.09 0.00 4.180 2.970 4.230
2003 270 23 120 785.506 -1068.610 D 8.566 8.541 0.025 64.23 33.79 1.82 0.03
0.05 0.08 0.00 4.180 2.970 4.230
2003 271 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 272 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 273 23 81 777.710 -1118.013 D 8.541 8.541 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.180 2.970 4.230
2003 274 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 275 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 276 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 277 23 120 785.506 -1068.610 D 8.425 8.425 0.000 81.70 15.42 2.79 0.05
0.08 0.12 0.00 3.920 2.820 3.990
2003 278 23 120 785.506 -1068.610 D 8.426 8.425 0.001 88.70 8.60 2.43 0.04
0.07 0.11 0.00 3.920 2.820 3.990
2003 279 23 120 785.506 -1068.610 D 8.425 8.425 0.000 80.82 16.83 2.21 0.04
0.06 0.10 0.00 3.920 2.820 3.990
2003 280 23 91 791.701 -1092.404 D 8.425 8.425 0.000 50.00 15.62 0.00 0.02
0.04 0.06 0.00 3.920 2.820 3.990
2003 281 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 282 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 283 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 284 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 285 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 286 23 120 785.506 -1068.610 D 8.531 8.425 0.106 89.04 6.73 3.72 0.06
0.10 0.17 0.18 3.920 2.820 3.990
2003 287 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 288 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 289 23 120 785.506 -1068.610 D 8.480 8.425 0.055 64.52 31.09 3.98 0.07
0.11 0.18 0.05 3.920 2.820 3.990
2003 290 23 120 785.506 -1068.610 D 8.505 8.425 0.081 39.71 58.15 1.91 0.03
0.05 0.09 0.05 3.920 2.820 3.990
2003 291 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 292 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990

2003 293 23 120 785.506 -1068.610 D 8.944 8.425 0.519 71.83 23.30 4.43 0.08
0.12 0.20 0.03 3.920 2.820 3.990
2003 294 23 81 777.710 -1118.013 D 8.570 8.425 0.145 35.35 59.44 4.38 0.08
0.12 0.20 0.43 3.920 2.820 3.990
2003 295 23 87 789.783 -1098.197 D 8.469 8.425 0.044 26.05 70.32 3.28 0.06
0.09 0.15 0.06 3.920 2.820 3.990
2003 296 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 297 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 298 23 120 785.506 -1068.610 D 8.425 8.425 0.000 42.76 56.14 0.58 0.01
0.02 0.03 0.42 3.920 2.820 3.990
2003 299 23 81 777.710 -1118.013 D 8.511 8.425 0.086 45.87 52.98 0.72 0.01
0.02 0.03 0.36 3.920 2.820 3.990
2003 300 23 120 785.506 -1068.610 D 8.452 8.425 0.027 39.61 57.38 2.74 0.05
0.08 0.12 0.02 3.920 2.820 3.990
2003 301 23 120 785.506 -1068.610 D 8.867 8.425 0.442 52.47 44.05 3.18 0.06
0.09 0.14 0.00 3.920 2.820 3.990
2003 302 23 120 785.506 -1068.610 D 8.425 8.425 0.000 43.52 54.52 1.82 0.03
0.05 0.09 0.00 3.920 2.820 3.990
2003 303 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 304 23 81 777.710 -1118.013 D 8.425 8.425 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.920 2.820 3.990
2003 305 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 306 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 307 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 308 23 81 777.710 -1118.013 D 8.431 8.431 0.000 63.86 30.99 4.52 0.08
0.13 0.21 0.01 3.930 2.830 4.010
2003 309 23 120 785.506 -1068.610 D 8.792 8.431 0.361 68.12 27.83 3.70 0.06
0.10 0.17 0.00 3.930 2.830 4.010
2003 310 23 87 789.783 -1098.197 D 8.765 8.431 0.334 50.23 47.13 2.41 0.04
0.07 0.11 0.01 3.930 2.830 4.010
2003 311 23 87 789.783 -1098.197 D 8.440 8.431 0.009 47.96 50.31 1.58 0.03
0.04 0.07 0.01 3.930 2.830 4.010
2003 312 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 313 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 314 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 315 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 316 23 120 785.506 -1068.610 D 8.482 8.431 0.051 23.69 72.01 3.32 0.06
0.09 0.15 0.67 3.930 2.830 4.010
2003 317 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 318 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 319 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 320 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010

2003 321 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 322 23 87 789.783 -1098.197 D 8.448 8.431 0.017 8.43 79.41 5.83 0.10 0.16
0.26 5.80 3.930 2.830 4.010
2003 323 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 324 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 325 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 326 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 327 23 120 785.506 -1068.610 D 8.439 8.431 0.008 1.08 87.62 0.01 0.00
0.00 0.00 11.29 3.930 2.830 4.010
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0.00 0.00 3.930 2.830 4.010
2003 329 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 330 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 331 23 120 785.506 -1068.610 D 8.473 8.431 0.042 19.86 74.95 1.02 0.02
0.03 0.05 4.08 3.930 2.830 4.010
2003 332 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 333 23 81 777.710 -1118.013 D 8.431 8.431 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 3.930 2.830 4.010
2003 334 23 120 785.506 -1068.610 D 8.474 8.431 0.043 53.74 42.48 3.46 0.06
0.10 0.16 0.00 3.930 2.830 4.010
2003 335 23 81 777.710 -1118.013 D 8.491 8.486 0.004 45.75 51.25 2.76 0.05
0.08 0.12 0.00 4.060 2.900 4.110
2003 336 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 337 23 120 785.506 -1068.610 D 8.573 8.486 0.087 48.43 49.28 2.01 0.04
0.06 0.09 0.10 4.060 2.900 4.110
2003 338 23 81 777.710 -1118.013 D 8.567 8.486 0.081 46.54 51.19 1.97 0.03
0.06 0.09 0.13 4.060 2.900 4.110
2003 339 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 340 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 341 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 342 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 343 23 120 785.506 -1068.610 D 8.582 8.486 0.096 27.25 64.23 6.07 0.11
0.17 0.27 1.89 4.060 2.900 4.110
2003 344 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 345 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 346 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 347 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 348 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110

2003 349 23 120 785.506 -1068.610 D 8.516 8.486 0.030 47.77 45.56 5.01 0.09
0.14 0.23 1.21 4.060 2.900 4.110
2003 350 23 81 777.710 -1118.013 D 8.487 8.486 0.001 28.49 68.68 2.52 0.04
0.07 0.11 0.09 4.060 2.900 4.110
2003 351 23 120 785.506 -1068.610 D 8.639 8.486 0.152 34.18 60.86 4.26 0.07
0.12 0.19 0.32 4.060 2.900 4.110
2003 352 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 353 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 354 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 355 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 356 23 117 788.168 -1071.180 D 8.561 8.486 0.074 39.29 58.18 1.20 0.02
0.03 0.05 1.22 4.060 2.900 4.110
2003 357 23 104 792.307 -1081.109 D 8.502 8.486 0.016 33.21 64.76 0.46 0.01
0.01 0.02 1.52 4.060 2.900 4.110
2003 358 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 359 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 360 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 361 23 81 777.710 -1118.013 D 8.486 8.486 0.000 0.00 0.00 0.00 0.00 0.00
0.00 0.00 4.060 2.900 4.110
2003 362 23 81 777.710 -1118.013 D 8.516 8.486 0.030 27.12 71.44 0.05 0.00
0.00 0.00 1.39 4.060 2.900 4.110
2003 363 23 88 791.229 -1096.193 D 8.487 8.486 0.000 1.66 96.54 0.00 0.00 0.00
0.00 1.74 4.060 2.900 4.110

--- Ranked Daily Visibility Change ---
START TIME % of Modeled Extinction by Species
Small Large SSalt
YEAR DAY HR RECEPTOR COORDINATES (km) TYPE DV(Total) DV(BKG) DELTA DV %_SO4
%_NO3 %_OC %_EC %_PMC %_PMF %_NO2 F(RH) F(RH) F(RH)
2003 31 23 120 785.506 -1068.610 D 9.342 8.491 0.851 54.08 43.40 2.04 0.04
0.06 0.09 0.31 4.080 2.910 4.100 1
2003 21 23 86 789.227 -1101.058 D 9.053 8.491 0.561 48.29 48.27 2.56 0.04 0.07
0.12 0.65 4.080 2.910 4.100 2
2003 18 23 120 785.506 -1068.610 D 9.027 8.491 0.536 23.35 73.25 2.75 0.05
0.08 0.12 0.40 4.080 2.910 4.100 3
2003 293 23 120 785.506 -1068.610 D 8.944 8.425 0.519 71.83 23.30 4.43 0.08
0.12 0.20 0.03 3.920 2.820 3.990 4
2003 7 23 86 789.227 -1101.058 D 8.981 8.491 0.490 22.42 74.46 2.59 0.05 0.07
0.12 0.29 4.080 2.910 4.100 5
2003 301 23 120 785.506 -1068.610 D 8.867 8.425 0.442 52.47 44.05 3.18 0.06
0.09 0.14 0.00 3.920 2.820 3.990 6
2003 81 23 81 777.710 -1118.013 D 8.807 8.366 0.441 52.71 44.38 2.67 0.05 0.08
0.12 0.00 3.790 2.740 3.870 7
2003 200 23 120 785.506 -1068.610 D 9.037 8.643 0.394 91.29 6.76 1.76 0.03
0.05 0.08 0.02 4.410 3.100 4.440 8
2003 309 23 120 785.506 -1068.610 D 8.792 8.431 0.361 68.12 27.83 3.70 0.06
0.10 0.17 0.00 3.930 2.830 4.010 9
2003 310 23 87 789.783 -1098.197 D 8.765 8.431 0.334 50.23 47.13 2.41 0.04

0.07 0.11 0.01 3.930 2.830 4.010 10
2003 79 23 96 792.004 -1086.756 D 8.676 8.366 0.310 45.03 48.60 5.23 0.09 0.15
0.24 0.66 3.790 2.740 3.870 11
2003 149 23 81 777.710 -1118.013 D 8.694 8.435 0.259 85.71 10.71 3.29 0.06
0.09 0.15 0.00 3.940 2.830 4.020 12
2003 73 23 120 785.506 -1068.610 D 8.622 8.366 0.256 46.35 52.62 0.92 0.02
0.03 0.04 0.02 3.790 2.740 3.870 13
2003 40 23 81 777.710 -1118.013 D 8.626 8.379 0.247 34.69 61.58 1.94 0.03 0.05
0.09 1.62 3.820 2.760 3.890 14
2003 4 23 81 777.710 -1118.013 D 8.726 8.491 0.234 27.02 70.97 1.79 0.03 0.05
0.08 0.05 4.080 2.910 4.100 15
2003 102 23 81 777.710 -1118.013 D 8.570 8.347 0.223 62.24 35.47 2.10 0.04
0.06 0.09 0.00 3.740 2.720 3.850 16
2003 82 23 81 777.710 -1118.013 D 8.555 8.366 0.189 42.86 54.59 2.33 0.04 0.07
0.11 0.00 3.790 2.740 3.870 17
2002 365 23 120 785.506 -1068.610 D 8.655 8.486 0.169 30.21 67.39 1.82 0.03
0.05 0.08 0.42 4.060 2.900 4.110 18
2003 201 23 120 785.506 -1068.610 D 8.810 8.643 0.167 71.26 26.23 2.30 0.04
0.06 0.10 0.01 4.410 3.100 4.440 19
2003 80 23 120 785.506 -1068.610 D 8.529 8.366 0.163 45.78 50.60 3.30 0.06
0.09 0.15 0.01 3.790 2.740 3.870 20
2003 351 23 120 785.506 -1068.610 D 8.639 8.486 0.152 34.18 60.86 4.26 0.07
0.12 0.19 0.32 4.060 2.900 4.110 21
2003 32 23 87 789.783 -1098.197 D 8.528 8.379 0.149 52.36 45.71 1.77 0.03 0.05
0.08 0.01 3.820 2.760 3.890 22

--- Number of days with Delta-Deciview => 0.50: 4
--- Number of days with Delta-Deciview => 1.00: 0
--- Largest Delta-Deciview = 0.851

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CALPOST Version 6.221 Level 080724

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Run-Length VISIBILITY

VISIB BOESNCFG

(deciview)

RECEPTOR COORDINATES (km) TYPE DV(Total) DV(BKG) DELTA DV

120 785.506 -1068.610 D 8.502 8.475 0.027

--- Number of recs with Delta-Deciview > 0.10: 0
--- Largest Delta-Deciview = 0.027