TOLNet Data Format Description: Format version 1.0

Document History:

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Introduction

The TOLNet data file format has been discussed and approved during the last quarter of 2012. Based on the agreed format, prototype input/output subroutines in IDL language were produced in early 2013 for use by the TOLNet data originators and users. The present documentation describes this data format and reviews the basic steps necessary to write and read the data, illustrated by examples using the prototype IDL routines. *The TOLNet format version at the time this documentation was first written is 1.0*. It will be incremented each time a "physical" format change is implemented and updated documentation will be provided accordingly.

General concept

The agreed format was built upon past experience and achievements from various atmospheric observation networks or projects, principally NDACC (Network for the Detection of Atmospheric Composition Change), and ICARTT (International Consortium for Atmospheric Research on Transport and Transformation). It was agreed that a quick, easy-to-access ASCII format had more advantages than a complex binary format. However TOLNet recognized the importance of keeping a strict consistency in data content for both metadata and primary (measured) and ancillary (*a priori*) data. Consequently, it was agreed that an ASCII format containing a unique general header followed by one or multiple blocks, each of which having a similar structure and reporting data and metadata of a specific profile, was the most appropriate choice for TOLNet.

Filename Structure

The TOLNet filename structure of the TOLNet data files is strongly inspired from that of the ICARTT data files. It is of the form: TOLNet-O3Lidar_SSS_YYYYMMDD_Rv[_c].dat, and is broken up as follows:

TOLNet-O3Lidar = Prescribed 14-character string to be used by all TOLNet lidars

- SSS = 3-character string for the TOLNet site/station name (PI's choice)
- YYYMMDD = 8-character string for the date of the first profile in file (year, month, day)
- R = Prescribed 1-character string referring to the next character (the revision number)
- v = 1-character string for the data revision number
- c = Optional, free length string used by PI to report special (e.g., non-routine) data
- .dat = Prescribed 3-character-long filename extension to be used by all TOLNet lidars

Data file general structure

The overall I/O and formatting rules applying to each TOLNet data file are as follows:

- 1) There may be one and only one data file per day (recorded in Universal Time) for a given TOLNet instrument.
- 2) There may be one or several profiles in each data file
- 3) Each data file must be built of 4 data/metadata blocks, the structure of which is being prescribed by the TOLNet Data Format version. For version 1.0, these blocks are:
 - a. The general header
 - b. The general comments section
 - c. The profile header
 - d. The data section
- 4) Each file must contain a unique "general header" followed by a unique "general comments section", both located before all the profiles
- 5) The general header contains the following information:
 - a. The file structure (incl. format version and other formatting details)
 - b. The number of lidar profiles reported in the file
- 6) The general comments section contains the following information:
 - a. General meta-data information (e.g., PI/contact info, site name, geo-location, etc.)
 - b. Data revision information, applying to entire file (i.e., not profile-specific)
- 7) Each profile is then reported sequentially in the form of a "profile header" followed by the 2-dimensional (altitudes x variables) data (the "data section")
- 8) Each profile header contains the following information:
 - a. Number of data lines in profile
 - b. Measurement geo-location
 - c. Measurement conditions
 - d. Data analysis version
 - e. Any other meta-data information pertaining to the profile and deemed critical by the TOLNet community (see details in profile header description)
- 9) The last line of each profile header serves as data column labels, and contains all data variables' short names separated by commas
- 10) Each profile header is preceded by a separator line starting with: "#BEGIN PROFILE"
- 11)Each profile header is immediately followed by the profile data, reported in the form of multiple lines of floating-point numbers separated by the comma character ","
- 12) The number of columns in the data section is constrained by the TOLNet format version
- 13)The number of lines and columns in the data section must always be consistent with the values reported in the profile header and general header respectively.

Structure and information content between line 1 and first data line

	Description	Туре	Dim.	Prescription	Ref.
Line 1	Number of lines to follow in general header, <u>excluding</u> general comments	Integer	Scalar	Fixed by TOLNet format version	ngh
Line 2	TOLNet format version	String	Scalar	Fixed by TOLNet format version	
Line 3	Number of profiles in file	Integer	Scalar	Set by data originator	nprof
Line 4	Number of data columns for all profiles	Integer	Scalar	Fixed by TOLNet format version	ncol
Lines 5 to 5+ <i>ncol</i> -1	Description of the <i>ncol</i> data variables (see list in TOLNet format version description)	Strings	Scalars	Fixed by TOLNet format version	
Line 5+ <i>ncol</i> (also 1+ <i>ngh</i>)	Missing values used for each column, separated by commas	String	Scalar	Fixed by TOLNet format version	
Line 2+ <i>ngh</i>	Number of lines to follow in general comments section	Integer	Scalar	Fixed by TOLNet format version	ngc
Lines 3+ <i>ngh</i> to 6+ <i>ngh</i>	First 4 general comments lines (see list in TOLNet format version description)	Strings Integers Floats	Scalars	Fixed by TOLNet format version	
Line 7+ <i>ngh</i> 1 st character	Letter "R" ("R" for "revision")	String	Scalar	Fixed by TOLNet format version	
Line 7+ <i>ngh</i> next character(s)	Revision number ("0" if first time data)	Integer	Scalar	Set by data originator	
Lines 8+ <i>ngh</i> to 2+ <i>ngh+ngc</i>	Revision comments lines (mandatory if rev number is not "0")	Strings	Scalars	Set by data originator	
Line 3+ <i>ngh</i> +ngc	Profile separator: must contain "#BEGIN PROFILE"	String	Scalar	Fixed by TOLNet format version	
Line 4+ngh+ngc	Number of lines to follow in profile header including all comments	Integer	Scalar	TOLNet format and PI	nph
Lines 5+ <i>ngh+ngc</i> to <i>5+ngh+ngc</i> +nph-2	Profile header lines (see list of metadata in Profile Header description)	Strings Integers Floats	Scalars	Set by data originator	
Line 5+ <i>ngh+ngc</i> +nph-1	Data variables short names for easy visual identification of data columns (separated by commas)	Strings	Scalars	Fixed by TOLNet format version	
Line 5+ <i>ngh+ngc</i> +nph	First data line (<i>ncol</i> scalars separated by commas)	Floats	Scalars	Set by data originator	

Prescribed data variables for TOLNet Format version v1.0

Number of data columns: 14

	Description	Unit	Short name	Nb. of significant decimals	Missing value
Column 1	Altitude above sea level (center of sampling bin)	m	ALT	f0.1	-9999
Column 2	Ozone number density (measured)	molec.m-3	O3ND	e0.3	-9999
Column 3	Ozone number density standard uncertainty	molec.m-3	O3NDUncert	e0.3	-9999
Column 4	Ozone number density (NDACC- standardized) vertical resolution	m	O3NDResol	f0.1	-9999
Column 5	Measurement Precision	%	Precision	f0.2	-9999
Column 6	Channel range (1.0 for near-field, 1.xx for mix, 2.0 for any farther field, etc	undimensional	ChRange	f0.2	-9999
Column 7	Ozone mixing ratio (derived)	ppbv	O3MR	f0.2	-9999
Column 8	Ozone mixing ratio uncertainty	ppbv	O3MRUncert	f0.2	-9999
Column 9	Pressure used for mixing ratio derivation	hPa	Press	e0.3	-9999
Column 10	Pressure uncertainty	hPa	PressUncert	e0.3	-9999
Column 11	Temperature used for mixing ratio derivation	к	Temp	f0.2	-9999
Column 12	Temperature uncertainty	к	TempUncert	f0.2	-9999
Column 13	Air number density used for mixing ratio derivation	molec.m-3	AirND	e0.3	-9999
Column 14	Air number density uncertainty	molec.m-3	AirNDUncert	e0.3	-9999

Prescribed meta-data in General Comments Section for TOLNet Format version v1.0

Number of metadata lines: 5

	Description	Unit	Туре
Line ngh+3	Instrument name	N/A	String
Line ngh+4	PI and contact info (separated by commas)	N/A	Strings
Line <i>ngh</i> +5	Site name	N/A	String
Line <i>ngh</i> +6	Longitude, latitude, altitude (separated by commas)	deg. East deg. North m	Floats
Line <i>ngh</i> +7 character(s) following "R"	Revision number	Undimensional	Integer

Prescribed meta-data in Profile Header for TOLNet Format version v1.0

Number of metadata lines: 10

	Description	Unit	Туре	Ref.
Line ngh+ngc+5	Number of data lines in profile	Undimensional	Integer	nalt
Line ngh+ngc+6	Data processing date and time	YYYY-MM-DD, HH:MM:SS	Strings	
Line ngh+ngc+7	Data processing software name and version	N/A	String	
Line ngh+ngc+8	Result quality: must be NOMINAL, FAIR or GOOD	N/A	String	
Line ngh+ngc+9	Start date/time of profile	YYYY-MM-DD, HH:MM:SS	Strings	
Line ngh+ngc+10	End date/time of profile	YYYY-MM-DD, HH:MM:SS	Strings	
Line ngh+ngc+11	Weighted mean date/time of profile	YYYY-MM-DD, HH:MM:SS	Strings	
Line ngh+ngc+12	A priori source of pressure, temperature and air number density used for ozone mixing ratio derivation	N/A	String	
Line ngh+ngc+13	A priori source date/time	YYYY-MM-DD, HH:MM:SS	Strings	
Line ngh+ngc+14	A priori source longitude, latitude, altitude, altitude (separated by commas)	deg. East deg. North m	Floats	

Optional comments for TOLNet Format version v1.0

Optional comments may be added at two locations:

- Data revision comments may be added at the end of the general comments section, immediately following line ngh+7. If data is of revision number "0", there should be no added comment (and therefore no added line). Otherwise, each increment in revision number should be associated with at least one additional comment line, most recent comments being on top of older comments. These comments pertain to the description of the revisions that were made and led to an update of the data files
- At the end of a profile header, comments may be added just before the line listing the short names (line 5+ngh+ngc+nph-1). These comments pertain to each individual profile being reported

Illustrative example:

An illustrative example is provided in attachment (attached to PDF version of present document), where the data content is color-coded based on its level of prescription:

- 1) Content in red is mandatory, and prescribed by the TOLNet format version (i.e., must appear "as is" in actual files)
- 2) Content in blue is mandatory, and set by the data originator
- 3) Content in green is optional, and set by the data originator (optional comments)

It is the responsibility of the data originator to set the appropriate values of all dynamic formatting elements, in particular:

- 1) The number of profiles in file (*nprof*)
- 2) The number of lines in the general comments section (*ngc*)
- 3) The number of profile header lines for each profile in the file (*nph*)
- 4) The number of data lines for each profile in the file (nalt)

It is the responsibility of the data originator to verify that all static formatting elements prescribed by the current TOLNet Format version are appropriately set, in particular:

- 1) The number of general header lines (ngh)
- 2) The TOLNet format version
- 3) The number of data columns (*ncol*)

Bonus Tools: How to write and read data files with the provided IDL routines

The provided IDL routines are called "WriteTOLNet.pro" for creating or updating a data file, and "ReadTOLNet.pro" for reading a data file. Every data and metadata variable to be mandatory reported is included in the list of input parameters.

IDL calling syntax to create a new data file:

```
WriteTOLNet,/create,a1,a2,a3,a4,a5,a6,x1,x2,x3,n1 $
    ,a7,a8,a9,a10,a11,a12,a13,a14,a15,a16 $
    ,a17,a18,a19,x4,x5,x6,a20 $
    ,v1,v2,v3,v4,v5,v6,v7,v8,v9,v10,v11,v12,v13,v14 $
    [,rev_comm=a21][,prof_comm=a22] $
    [,file_suffix=a23][,dir_name=a24][,ndata=n2]
```

(the dollar "\$" sign is the standard IDL syntax used to continue the same command on the next line, and the brackets shown above simply annotate optional keywords)

One or several profiles may be written at once for each IDL routine call. Regardless of the number of profiles, the metadata passed through the call and meant to be written in the general header + general comments section are always scalars (input parameters a1 through a6, x1 through x3, and n1).

If only one profile is to be written, the meta-data passed through the call and meant to be written in the profile header may either be scalars or vectors of length 1. Each data variable may be either vectors of length *nalt*, or 2D arrays of dimension 1 x *nalt*.

If several profiles are to be written, the metadata meant for the profile header are always vectors of length *nprof* (*nprof*>1). Each data variable is a 2D arrays of dimension *nprof* x *nalt*.

When the number of data points (*nalt*) is different from one profile to another, the keyword "ndata=n2" should be used to specify how many data lines should be written for each profile (n2 is a vector of length *nprof* containing the number of data lines for each profile).

Keywords "rev_comm=" (respectively "prof_comm=") should be used only when including revision (respectively profile) comments. Keyword "file_suffix=" should be used only for special measurements (e.g., validation campaigns, non-routine measurements), and the string a23 should be of reasonable length since it will be directly appended to the filename.

IDL calling syntax to append data to an already existing data file:

The only difference with the "create" mode is the use of the keyword "/append" instead of "/create". In "append" mode, the full content of the target data file (i.e., general header, general comments section, profile headers, and data sections) is kept unchanged, except for the reported number of profiles (line 4) and the data revision lines (revision comments), which should reflect the content of the input parameters passed through the call in "append" mode.

List of <u>mandatory</u> input parameters associated with WriteTOLNet.pro:

	Description	Unit	Туре	Dimension	Max length	Destination	Example
a1	Site ID	/	string	scalar	3-char	filename	TMF
a2	Instrument name	/	string	scalar	60-char	General Comments	Tropospheric Lidar
a3	PI name	/	string	scalar	60-char	General Comments	T. Leblanc
a4	PI organization	/	string	scalar	60-char	General Comments	Jet Propulsion Laboratory
а5	PI email	/	string	scalar	60-char	General Comments	leblanc@tmf.jpl.nasa.gov
a6	Site name	/	string	scalar	60-char	General Comments	Table Mountain Facility
x1	Site longitude	degE	float	scalar	/	General Comments	-117.7
x2	Site latitude	degN	float	scalar	/	General Comments	34.4
x3	Site altitude	m	float	scalar	/	General Comments	2285.
n1	Revision version	/	integer	scalar	/	General Comments	1
a7	Data processing date	/	string	[nprof]	10-char	Profile Header(s)	['2013-01-23','2013-01-23']
a8	Data processing time	/	string	[nprof]	8-char	Profile Header(s)	['12:34','12:40']
a9	Data processing version	/	string	[nprof]	48-char	Profile Header(s)	['LidAna v1.2','LidAna v1.2']
a10	Data quality	/	string	[nprof]	48-char	Profile Header(s)	['POOR','NOMINAL']
a11	Profile start date	/	string	[nprof]	10-char	Profile Header(s)	['2013-01-22','2013-01-22']
a12	Profile start time	/	string	[nprof]	8-char	Profile Header(s)	['06:12:05','08:40:59']
a13	Profile end date	/	string	[nprof]	10-char	Profile Header(s)	['2013-01-22','2013-01-22']
a14	Profile end time	/	string	[nprof]	8-char	Profile Header(s)	['08:12:45','09:40:10']
a15	Profile weighted mean date	/	string	[nprof]	10-char	Profile Header(s)	['2013-01-22','2013-01-22']
a16	Profile weighted mean time	/	string	[nprof]	8-char	Profile Header(s)	['07:12:34','09:10:21']
a17	A priori source name	/	string	[nprof]	10-char	Profile Header(s)	['Radiosonde', 'NCEP']
a18	A priori source date	/	string	[nprof]	10-char	Profile Header(s)	['2013-01-22','2013-01-22']

List of <u>mandatory</u> input parameters associated with WriteTOLNet.pro (cont.)

	Description	Unit	Туре	Dimension	Max length	Destination	Example
a19	A priori source time	/	string	[nprof]	8-char	Profile Header(s)	['06:00','12:00']
x4	A priori source longitude	degE	float	[nprof]	/	Profile Header(s)	-115.0
x5	A priori source latitude	degN	float	[nprof]	/	Profile Header(s)	32.5
x6	A priori source altitude	m	float	[nprof]	/	Profile Header(s)	237.
a20	Operator comments	/	string	[nprof]	48-char	Profile Header(s)	['Windy tonight','Clear']
v1	Altitude	m	float	[nprof,nalt]	/	Data col-1	
v2	Ozone number density	molec.m-3	float	[nprof,nalt]	/	Data col-2	
v3	Ozone number density uncertainty	molec.m-3	float	[nprof,nalt]	/	Data col-3	
v4	Vertical resolution	m	float	[nprof,nalt]	/	Data col-4	
v5	Precision	%	float	[nprof,nalt]	/	Data col-5	
v6	Channel code	/	float	[nprof,nalt]	/	Data col-6	
v7	Ozone mixing ratio	ppbv	float	[nprof,nalt]	/	Data col-7	
v8	Ozone mixing ratio uncertainty	ppbv	float	[nprof,nalt]	/	Data col-8	
v9	A priori pressure	hPa	float	[nprof,nalt]	/	Data col-9	
v10	A priori pressure uncertainty	hPa	float	[nprof,nalt]	/	Data col-10	
v11	A priori temperature	hPa	float	[nprof,nalt]	/	Data col-11	
v12	A priori temperature uncertainty	hPa	float	[nprof,nalt]	/	Data col-12	
v13	A priori air number density	hPa	float	[nprof,nalt]	/	Data col-13	
v14	A priori air number density uncertainty	hPa	float	[nprof,nalt]	/	Data col-14	

In the case of multiple profiles, the vertical dimension length "*nalt*" must always be set to the maximum length found among all profiles to ensure that all the data is properly transferred to the file (IDL works with rectangular arrays). The proper number of (valid) altitudes to be actually written in the file is transferred through the "ndata" keyword.

List of <u>optional</u> input keywords associated with WrlteTOLNet.pro:

	Description	Unit	Туре	Dimension	Max length	Destination	Example
a21	Revision comments	/	string	scalar	60-char	General comments section	'Revised data due to bug in v0'
a22	Profile comments	/	string	[nprof]	48-char	Profile Header(s)	["Pb. with analysis','Used NCEP']
a23	File suffix	/	string	scalar	free	Filename	'AJAX_Campaign'
a24	Output directory name	/	string	scalar	free	Filename	'C:\TOLNet_Data\2013\'
n2	Number of data lines per profile	/	integer	[nprof]	/	Data section	[234,321]

IDL calling syntax to read a TOLNet data file:

```
ReadTOLNet,filename ,a1,a2,a3,a4,a5,a6,x1,x2,x3,n1 $
    ,a7,a8,a9,a10,a11,a12,a13,a14,a15,a16 $
    ,a17,a18,a19,x4,x5,x6,a20 $
    ,v1,v2,v3,v4,v5,v6,v7,v8,v9,v10,v11,v12,v13,v14 $
    [,rev_comm=a21][,prof_comm=a22][,ndata=n2][,extract=n3]
```

In "create" or "append" mode, there were only input parameters and keywords, i.e., no returned variables. In the present case, all input parameters of the "WriteTOLNet.pro" routine have now become the returned variables. The only input parameter is the filename to read. Unlike "WriteTOLNet.pro" there is no "/create" or "/append" keyword. Instead there is an "extract" keyword that allows to extract a subset of the profiles contained in the file. For example, if the file contains 10 profiles and one wants only profiles #4 and #6, then the keyword syntax "extract=[4,6]" can be used.

Also, there is no "file_suffix" or "dir_name" keywords like in the "WriteTOLNet.pro routine because the complete filename (including path) is included in the one input parameter "filename".

When multiple profiles are returned, the size of the altitude dimension is always set to the maximum size found among all profiles. The correct number of altitudes for each profile is then set by using the keyword "ndata".

IDL routine for the definition of the TOLNet Format template: TOLNetFormat.pro:

This routine is called by "WriteTOLNet.pro". Its role is to build up the proper TOLNet format template. The input parameter "version" is currently not used since only one TOLNet format exists (v1.0). It will be used in the future when format versions change. <u>This routine should not be modified for any reason</u> without prior consultation with the TOLNet group. Any change to this routine may result in a possible alteration of the format template, increasing the risk for non-compliance.

Color coding: red = Mandatory content prescribed by TOLNet Format version (currently v1.0) blue = Mandatory content (data and metadata) from data originator green = Optional content (comments) from data originator

green = Optional content (comments) from d	
18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)	•
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS FILE	
14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES	
ALT, m, Altitude above sea level (center of sampling bin)	; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty	; COLUMN 3
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.0, nearest-field to farthest-field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)	; COLUMN 7
O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty	; COLUMN 8
	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
Temp, K, Air Temperature used to derive Ozone Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty	; COLUMN 12
	; COLUMN 13
AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty	; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999	, -9999, -9999, -999 ; MISSING DATA VALUES
	NERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUMENT N	AME
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov ; PI AND CONTA	
Table Mountain, CA ; SITE NAME	
242.300, 34.4000, 2285.00 ; SITE LONGITU	DE, LATITUDE, ELEVATION (degE, degN, m)
R1 ; DATA REVISIO	N # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DATA REVISIO	N DETAILS, NEWEST ON TOP
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP
There is a "1" for data revision, so here is the additional ; DATA REVISIO	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP
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There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR)
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN , Temp, AirND USED TO DERIVE OZONE MIXING RATIO
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN , Temp, AirND USED TO DERIVE OZONE MIXING RATIO DE, ELEVATION (degE, degN, m)
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN , Temp, AirND USED TO DERIVE OZONE MIXING RATIO DE, ELEVATION (degE, degN, m) TO THIS PROFILE
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN , Temp, AirND USED TO DERIVE OZONE MIXING RATIO DE, ELEVATION (degE, degN, m) TO THIS PROFILE ss, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN , Temp, AirND USED TO DERIVE OZONE MIXING RATIO DE, ELEVATION (degE, degN, m) TO THIS PROFILE ss, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 2, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 2, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN , Temp, AirND USED TO DERIVE OZONE MIXING RATIO DE, ELEVATION (degE, degN, m) TO THIS PROFILE ss, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 2, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 2, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003
There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	N DETAILS, NEWEST ON TOP DETAILS, NEWEST ON TOP N THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE ME , FAIR, POOR) START END MEAN , Temp, AirND USED TO DERIVE OZONE MIXING RATIO DE, ELEVATION (degE, degN, m) TO THIS PROFILE ss, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 2, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 2, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003 2, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003

Quick self-extraction Step 1: Read Number of General Header lines

18 ; NUMBER OF GENERAL HEADER LINES (AF	•	
VI.0 ; TOLNET STANDARDIZED FORMAT VERSION	N FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS FILE		
14 ; NUMBER OF DATA COLUMNS FOR ALL PRO		
ALT, m, Altitude above sea level (center of s		; COLUMN 1
O3ND, molec.m-B, Ozone Number Density (measur		; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density (-	
O3NDResol, m, Dzone Number Density Standardiz		; COLUMN 4
ChRange, #, Channel Range (1.0 to N.0, neares	leader lines (<i>nah</i>)	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.O, neares	st-field to farthest field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)		; COLUMN 7
O3MRUncert, ppov, Ozone Mixing Ratio Combined	d Standard Uncertainty	; COLUMN 8
Press, hPa, Air Pressure used to derive Ozone	e Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncer	rtainty	; COLUMN 10
Temp, K, Air Temperature used to derive Ozone	e Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard	d Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density used to	-	; COLUMN 13
AirNDUncert, mplec.m-3, Air Number Density St		; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -9999, -9999, -99		
7		ENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozor		
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.go		
Table Mountain, CA	; SITE NAME	
		UDE LATTTUDE ELEVATION (dear dean m)
242.300, 34.4000, 2285.00		UDE, LATITUDE, ELEVATION (degE, degN, m)
R1	; DATA REVISI	ON # (if value >0 then provide text below)
R1 There is a ``1" for data revision, so here is	; DATA REVISI the additional ; DATA REVISI	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP
R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no	; DATA REVISI the additional ; DATA REVISI ot "0" ; DATA REVISIO	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
R1 There is a ``1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;	; DATA REVISI the additional ; DATA REVISI ot "0" ; DATA REVISIO	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a ``1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISI ot "0" ; DATA REVISIO ; NUMBER OF HEADER LINES	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a ``1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISI ot "0" ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISI ot "0" ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE IME
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISI ; DATA REVISIO ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR)
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT)	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISI ; DATA REVISIO ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT)	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT)	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT)	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Pres ; SOURCE DATE, TIME (UT)	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Pres ; SOURCE DATE, TIME (UT)	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;	; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI PRES ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATIT ; OPERATOR COMMENTS	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO UDE, ELEVATION (degE, degN, m)
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION ; DATA PROCESSING DATE, T ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Press ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATIT ; OPERATOR COMMENTS as. ; OTHER COMMENTS SPECIFIC	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO UDE, ELEVATION (degE, degN, m) TO THIS PROFILE
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Pres ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATIT ; OPERATOR COMMENTS as. ; OTHER COMMENTS SPECIFIC ChRange, O3MR, O3MRUncert, Pr	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO UDE, ELEVATION (degE, degN, m) TO THIS PROFILE ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Pres ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATIT ; OPERATOR COMMENTS as. ; OTHER COMMENTS SPECIFIC ChRange, O3MR, O3MRUncert, Pr , 1.00, 57.92, 12.25, 7.540e+0	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO UDE, ELEVATION (degE, degN, m) TO THIS PROFILE ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 02, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISION the additional ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA REVISION ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Press ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATIT ; OPERATOR COMMENTS as. ; OTHER COMMENTS SPECIFIC ChRange, O3MR, O3MRUncert, Pr , 1.00, 57.92, 12.25, 7.540e+0 , 1.00, 48.95, 11.58, 7.526e+0	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO UDE, ELEVATION (degE, degN, m) TO THIS PROFILE ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 02, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 02, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISIO ot "0" ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Pres ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATIT ; OPERATOR COMMENTS as. ; OTHER COMMENTS SPECIFIC ChRange, O3MR, O3MRUncert, Pr , 1.00, 57.92, 12.25, 7.540e+0 , 1.00, 48.95, 11.58, 7.526e+0 , 1.00, 49.76, 11.50, 7.512e+0	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO UDE, ELEVATION (degE, degN, m) TO THIS PROFILE ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 02, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 02, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003 02, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003
<pre>R1 There is a "1" for data revision, so here is comment that is mandatory when revision is no #BEGIN PROFILE ;</pre>	; DATA REVISI the additional ; DATA REVISIO ot "0" ; DATA REVISIO ; DATA REVISIO ; DATA REVISIO ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES IN ; DATA PROCESSING DATE, T ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINA ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; PROFILE DATE, TIME (UT) ; SOURCE OF A PRIORI Pres ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATIT ; OPERATOR COMMENTS as. ; OTHER COMMENTS SPECIFIC ChRange, O3MR, O3MRUncert, Pr , 1.00, 57.92, 12.25, 7.540e+0 , 1.00, 48.95, 11.58, 7.526e+0 , 1.00, 46.90, 11.20, 7.498e+0	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO UDE, ELEVATION (degE, degN, m) TO THIS PROFILE ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 02, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 02, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003 02, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003 02, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003

Quick self-extraction Step 2: Read Number of profiles in file

18 ; NUMBER OF GENERAL HEADER LINES	(AFTED MUTC ITNE)	
	· · · · · · · · · · · · · · · · · · ·	
; TOLNET STANDARDIZED FORMAT VERS		
2 ; NUMBER OF PROFILES IN THIS FILE		
; NUMBER OF DATA COLUMNS FOR ALL		
ALT, m, Altitude above sea level (center o		; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (mea	•	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Densit		
O3NDResol, m, Ozone Number Density Standa	rdized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision		; COLUMN 5
ChRange, #, Channel Range (1.0 to N.0, nea	arest-field to farthest-field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)		; COLUMN 7
O3MRUncert, ppbv, Ozone Mixing Ratio Combi	ined Standard Uncertainty	; COLUMN 8
Press, hPa, Air Pressure used to derive O	zone Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Un		; COLUMN 10
Temp, K, Air Temperature used to derive O	zone Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio Stand	lard Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density used		
AirNDUncert, molec.m-3, Air Number Density	Y Standard Uncertainty	; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -9999,	-9999, -9999, -9999, -9999, -99	99, -9999, -9999, -999 ; MISSING DATA VALUES
7	; NUMBER OF	GENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric (Dzone Lidar ; INSTRUMENT	NAME
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa	a.gov ; PI AND CON	
Table Mountain, CA	; SITE NAME	
242.300, 34.4000, 2285.00	; SITE LONGI	TUDE, LATITUDE, ELEVATION (degE, degN, m)
R1	; DATA REVIS	ION # (if value >0 then provide text below)
	; DATA REVIS is the additional ; DATA REVIS	TUDE, LATITUDE, ELEVATION (degE, degN, m) ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP
Number of profiles in file (nprof)	is the additional ; DATA REVIS s not "0" ; DATA REVISI	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	is the additional ; DATA REVIS s not "0" ; DATA REVISI	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP
Number of profiles in file (nprof)	is the additional ; DATA REVIS s not "0" ; DATA REVISI	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	is the additional ; DATA REVIS s not "0" ; DATA REVISI	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE,	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ;	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END
Number of profiles in file (nprof) Comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT)</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
Number of profiles in file (nprof) Comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN
Number of profiles in file (nprof) Comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m)
Number of profiles in file (nprof) Comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during lidar	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS meas. ; OTHER COMMENTS SPECIFI</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during lidar ALT, O3ND, O3NDUncert, O3NDResol, Precisio	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS meas. ; OTHER COMMENTS SPECIFI on, ChRange, O3MR, O3MRUncert, P</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR) START HAL, FAIR, POOR) MEAN SS, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE Tress, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during lidar ALT, O3ND, O3NDUncert, O3NDResol, Precisio 2503.0, 1.143e+018, 2.257e+017, 506.2, 14	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE OF A PRIORI Pre ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS meas. ; OTHER COMMENTS SPECIFI on, ChRange, O3MR, O3MRUncert, P .59, 1.00, 57.92, 12.25, 7.540e+</pre>	ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR) START HAL, FAIR, POOR) MEAN SS, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE Tress, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during lidar ALT, O3ND, O3NDUncert, O3NDResol, Precisio 2503.0, 1.143e+018, 2.257e+017, 506.2, 14 2518.0, 9.643e+017, 2.150e+017, 543.8, 16	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE OF A PRIORI Pre ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS meas. ; OTHER COMMENTS SPECIFI on, ChRange, O3MR, O3MRUncert, P .59, 1.00, 57.92, 12.25, 7.540e+ .77, 1.00, 48.95, 11.58, 7.526e+</pre>	<pre>ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP </pre>
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during lidar ALT, O3ND, O3NDUncert, O3NDResol, Precisio 2503.0, 1.143e+018, 2.257e+017, 506.2, 14 2518.0, 9.643e+017, 2.150e+017, 543.8, 16 2533.0, 9.787e+017, 2.126e+017, 581.3, 16	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE OF A PRIORI Pre ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS meas. ; OTHER COMMENTS SPECIFI on, ChRange, O3MR, O3MRUncert, P .59, 1.00, 57.92, 12.25, 7.540e+ .77, 1.00, 48.95, 11.58, 7.526e+ .13, 1.00, 49.76, 11.50, 7.512e+</pre>	<pre>ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP </pre>
Number of profiles in file (nprof) comment that is mandatory when revision is #BEGIN PROFILE ; 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during lidar ALT, O3ND, O3NDUncert, O3NDResol, Precisio 2503.0, 1.143e+018, 2.257e+017, 506.2, 14 2518.0, 9.643e+017, 2.150e+017, 543.8, 16 2533.0, 9.787e+017, 2.126e+017, 581.3, 16	<pre>is the additional ; DATA REVIS s not "0" ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE OF A PRIORI Pre ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS meas. ; OTHER COMMENTS SPECIFI on, ChRange, O3MR, O3MRUncert, P .59, 1.00, 57.92, 12.25, 7.540e+ .77, 1.00, 48.95, 11.58, 7.526e+ .13, 1.00, 49.76, 11.50, 7.512e+ .66, 1.00, 46.90, 11.20, 7.498e+</pre>	<pre>ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE ress, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 002, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003 002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003 002, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003</pre>

18 ; NUMBER OF GENERAL HEADER LINES (A)	·
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION	I FOR PROFILE DATA
; NUMBER OF PROFILES IN THIS FILE	
(14) ; <u>NUMBER OF DATA COLUMNS FOR ALL PRO</u>	DFILES
ALT, m, Altitude above sea level (center of s	sampling bin) ; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measur	red) ; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density (Combined Standard Uncertainty ; COLUMN 3
O3NDResol, m, Ozone Number Density Standardiz	
Precision, %, Measurement Precision	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.0, neares	
O3MR, ppbv, Dzone Mixing Ratio (derived)	; COLUMN 7
O3MRUncert, ppbv, Ozone Mixing Ratio Combined	
Press, hPa, Air Pressure used to derive Ozone	
PressUncert, hPa, Air Pressure Standard Uncer	
Temp, K, Air Temperature used to derive Ozone	
	Haring Ratio , Colomn 11
TempUncert, K, Air Temperature Ratio Standard AirND, molec m-3, Air Number Density used to	derive area Mining Patie ; COLUMN 12
AirNDUncert. molec.m-3, Air Number Density used to	derive Usene Mixing Ratio ; COLUMN 15
	999, -9999, -9999, -9999, -9999, -9999, -9999, -999 ; MISSING DATA VALUES
7	; NUMBER OF GENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozor	
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.go	
Table Mountain, CA	; SITE NAME
242.300, 34.4000, 2285.00	; SITE NAME ; SITE LONGITUDE, LATITUDE, ELEVATION (degE, degN, m) ; DATA REVISION # (if value >0 then provide text below)
R1	
	the additional ; DATA REVISION DETAILS, NEWEST ON TOP
	ot "0" ; DATA REVISION DETAILS, NEWEST ON TOP
#BEGIN PROFILE ;	
13	; NUMBER OF HEADER LINES IN THIS PROFILE'S HEADER (AFTER THIS LINE)
1167	; NUMBER OF DATA LINES IN THIS PROFILE
2013-05-31, 00:29:26	; DATA PROCESSING DATE, TIME
LidAna v06.25	; DATA PROCESSING VERSION
NOMINAL	; RESULTS QUALITY (NOMINAL, FAIR, POOR)
2013-05-09, 04:20:30	; PROFILE DATE, TIME (UT) START
2013-05-09, 05:20:37	; PROFILE DATE, TIME (UT) END
2013-05-09, 04:50:34	; PROFILE DATE, TIME (UT) MEAN
NCEP-Analysis	; SOURCE OF A PRIORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
2013-05-09, 12:00:00	; SOURCE DATE, TIME (UT)
242.300, 34.4000, 2285.00	; SOURCE LONGITUDE, LATITUDE, ELEVATION (degE, degN, m)
NONE	; OPERATOR COMMENTS
	as. ; OTHER Number of Data Columns (ncol)
ALT. O3ND. O3NDUncert. O3NDResol. Precision.	
	ChRange, OJMR, OJMRUNCERT, Press, Pressuncert, Temp, TempUncert, AirNU, AirNUUncert, :
2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59	ChRange, O3MR, O3MRUncert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert; 1.00, 57.92, 12.25, 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003
	. 1.00, 57.92, 12.25, 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77	. 1.00, 57.92, 12.25, 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 . 1.00, 48.95, 11.58, 7.526e+002, -9.999e+003, 276.72, -99999.00, 1.970e+025, -9.999e+003
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77 2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13	. 1.00, 57.92, 12.25, 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003

Quick self-extraction Step 4: Read missing values (1 line)

18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)	
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS FILE	
14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES	
ALT, m, Altitude above sea level (center of sampling bin)	; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty	
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision	; COLUMN 5
	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)	; COLUMN 7
	; COLUMN 8
Press, hPa, Air Pressure used to derive Ozone Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
Temp, K, Air Temperature used to derive Ozone Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty	ol values separated by commas
AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio	; COLUMN 13
Air <u>NDUncert moloc.m 3, Air Number Density Standard Uncertainty</u>	COLUMN 14
_ <1 999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999	9, -9999, -9999, -999 ; MISSING DATA VALUES
7 , NUMBER OF GI	ENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUMENT N	
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov ; PI AND CONTA	ACT INFO
Table Mountain, CA ; SITE NAME	
	UDE, LATITUDE, ELEVATION (degE, degN, m)
	ON # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DATA REVISION	
comment that is mandatory when revision is not "0" ; DATA REVISION	
#BEGIN PROFILE ;	A DEIRIES, NEWESI ON TOP
	IN THIS PROFILE"S HEADER (AFTER THIS LINE)
1167 ; NUMBER OF DATA LINES IN	
2013-05-31, 00:29:26 ; DATA PROCESSING DATE, TI	
LidAna v06.25 ; DATA PROCESSING VERSION	
NOMINAL ; RESULTS QUALITY (NOMINAI	L, FAIR, POOR)
2013-05-09, 04:20:30 ; PROFILE DATE, TIME (UT)	START
2013-05-09, 05:20:37 ; PROFILE DATE, TIME (UT)	END
2013-05-09, 04:50:34 ; PROFILE DATE, TIME (UT)	MEAN
NCEP-Analysis ; SOURCE OF A PRIORI Press	s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
2013-05-09, 12:00:00 ; SOURCE DATE, TIME (UT)	
	UDE, ELEVATION (degE, degN, m)
NONE ; OPERATOR COMMENTS	<i>122, 222, 112, (dog2, dog1, m)</i>
58.8 ppbv mean surface ozone during lidar meas. ; OTHER COMMENTS SPECIFIC	
ALT, O3ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Pre	
2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.540e+00	
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526e+00	
2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512e+00	
2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.498e+00	02, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003

Quick self-extraction Step 5: Read number of general comments lines

18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE) v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA 2 ; NUMBER OF PROFILES IN THIS FILE 14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES ; COLUMN 1 ALT, m, Altitude above sea level (center of sampling bin) ; COLUMN 2 O3ND, molec.m-3, Ozone Number Density (measured) O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty ; COLUMN 3 O3NDResol, m, Ozone Number Density Standardized Vertical Resolution ; COLUMN 4 Precision, %, Measurement Precision ; COLUMN 5 ChRange, #, Channel Range (1.0 to N.0, nearest-field to farthest-field) ; COLUMN 6 O3MR, ppbv, Ozone Mixing Ratio (derived) ; COLUMN 7 O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty ; COLUMN 8 Press, hPa, Air Pressure used to derive Ozone Mixing Ratio ; COLUMN 9 PressUncert, hPa, Air Pressure Standard Uncertainty ; COLUMN 10 Temp, K, Air Temperature used to derive Ozone Mixing Ratio TempUncert, K, Air Temperature Ratio Standard Uncertainty ; COLUMN 11 ; COLUMN 12 AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio ; COLUMN 13 AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty ; COLUMN 14 🖘 🗢 , –9999, –9999, –9999, –9999, –9999, –9999, –9999, –9999, –9999, –9999, –9999, –9999, –9999 ; MISSING DATA VALUES 7 ; NUMBER OF GENERAL COMMENTS LINES (AFTER THIS LINE) JPETable Mountain Facility Tropospheric Ozone Lidar; INSTRUMENT NAMEThierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov; PI AND CONTACT ; PI AND CONTACT INFO Table Mountain, CA ; SITE NAME 242.300, 34.40 Number of General comments lines (dege, degn, m) R1 (if value >0 then provide text below) There is a "1" for data revision, so here is the additional ; DATA REVISION DETAILS, NEWEST ON TOP comment that is mandatory when revision is not "0" ; DATA REVISION DETAILS, NEWEST ON TOP 13 ; NUMBER OF HEADER LINES IN THIS PROFILE'S HEADER (AFTER THIS LINE) ; NUMBER OF DATA LINES IN THIS PROFILE 1167 2013-05-31, 00:29:26 LidAna v06.25 ; DATA PROCESSING DATE, TIME LidAna v06.25 ; DATA PROCESSING VERSION ; RESULTS QUALITY (NOMINAL, FAIR, POOR) ; PROFILE DATE, TIME (UT) START NOMINAL 2013-05-09, 04:20:30 2013-05-09, 05:20:37 ; PROFILE DATE, TIME (UT) END 2013-05-09, 04:50:34 ; PROFILE DATE, TIME (UT) MEAN ; SOURCE OF A PRIORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO NCEP-Analysis

 2013-05-09, 12:00:00
 ; SOURCE DATE, TIME (UT)

 242.300, 34.4000,
 2285.00

 ; SOURCE LONGITUDE, LATITUDE, ELEVATION (degE, degN, m)

 NONE ; OPERATOR COMMENTS 58.8 ppbv mean surface ozone during lidar meas. ; OTHER COMMENTS SPECIFIC TO THIS PROFILE ALT, O3ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert; 2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526e+002, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003 2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512e+002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003 2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.498e+002, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003

	NES (AFTER THIS LINE)	
v1.0 ; TOLNET STANDARDIZED FORMAT	VERSION FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS	FILE	
14 ; NUMBER OF DATA COLUMNS FOR 2	ALL PROFILES	
ALT, m, Altitude above sea level (cent	er of sampling bin)	; COLUMN 1
O3ND, molec.m-3, Ozone Number Density	(measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number De	nsity Combined Standard Uncertainty	; COLUMN 3
O3NDResol, m, Ozone Number Density Sta	ndardized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision		; COLUMN 5
ChRange, #, Channel Range (1.0 to N.0,	nearest-field to farthest-field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derive	d)	; COLUMN 7
O3MRUncert, ppbv, Ozone Mixing Ratio C	ombined Standard Uncertainty	; COLUMN 8
Press, hPa, Air Pressure used to derive	e Ozone Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard	d Uncertainty	; COLUMN 10
Temp, K, Air Temperature used to derive	e Ozone Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio S	tandard Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density u	sed to derive Ozone Mixing Ratio	; COLUMN 13
AirNDUncert, molec.m-3, Air Number Den	sity Standard Uncertainty	; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -99	99, -9999, -9999, -9999, -9999, -99	99, -9999, -9999, -999 ; MISSING DATA VALUES
7	; NUMBER OF	GENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospher.	ic Ozone Lidar ; INSTRUMENT	NAME
Thierry Leblanc, JPL, leblanc@tmf.jpl.:	nasa.gov ; PI AND CON	TACT INFO
Table Mountain, CA	; SITE NAME	
242.300, 34.4000, 2285.00	; SITE LONGI	TUDE, LATITUDE, ELEVATION (degE, degN, m)
		TOPE, MILLION, MALLION (degl, degn, m)
R1	; DATA REVIS	ION # (if value >0 then provide text below)
		ION # (if value >0 then provide text below)
R1 There is a "1" for data revision, so h	ere is the additional ; DATA REVIS	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP
R1 There is a "1" for data revision, so h comment that is mandatory when revision #BEGIN PROFILEP-rofile-separat	ere is the additional ; DATA REVIS n is not. "0" Ort-this line is not acount	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC-TOT IN-NGC
R1 There is a "1" for data revision, so h comment that is mandatory when revision #BEGIN PROFILEP-FOILE-Separat 13	ere is the additional ; DATA REVIS n is not."0" CORL-THIS TIME IS NOT ACOUNT ; NUMBER OF HEADER LINES	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC-ION IN THIS PROFILE"S HEADER (AFTER THIS LINE)
R1 There is a "1" for data revision, so h comment that is mandatory when revision #BEGIN PROFILE 13 1167	ere is the additional ; DATA REVIS n is not."0" OTThis line is not.acount ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP LEC - IOF IN AGE IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE
R1 There is a "1" for data revision, so h comment that is mandatory when revision #BEGIN PROFILE 13 1167 2013-05-31, 00:29:26	ere is the additional ; DATA REVIS n is not "0" Ine is not account ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE,	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP LEC -TOF IN NGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME
R1 There is a "1" for data revision, so h comment that is mandatory when revision #BEGIN PROFILE 13 1167 2013-05-31, 00:29:26 LidAna v06.25	ere is the additional ; DATA REVIS n is not "0" ior:-this line is not account ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC - TOF IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N
R1 There is a "1" for data revision, so h comment that is mandatory when revision BEGIN PROFILE P-FOFILE-Separat 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL	ere is the additional ; DATA REVIS n is not "0" ior:-this line is not account ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IECTOP IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)
R1 There is a "1" for data revision, so here is a "1" for data revision, so here is mandatory, when revision BEGIN PROFILEProfile Separat 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30	ere is the additional ; DATA REVIS n is not "0" ior:-this line is not account ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IECTOP IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)
R1 There is a "1" for data revision, so h comment that is mandatory when revision BEGIN PROFILE P-FOFILE-Separat 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL	ere is the additional ; DATA REVIS n is not "0" ior:-this line is not account ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN	ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IECTOP IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START
R1 There is a "1" for data revision, so he comment that is mandatory, when revision #BEGIN PROFILE 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30	ere is the additional ; DATA REVIS n is pot "0" ; DATA REVIS ; DATA REVIS ; DATA REVIS ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGE IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILE 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 05:20:37	ere is the additional ; DATA REVIS DATA REVIS OCT-THIS TIME IS NOT ACCOUNT ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGE IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END</pre>
R1 There is a "1" for data revision, so he comment that is mandatory when revision #BEGIN PROFILEProfile Separat 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34	ere is the additional ; DATA REVIS DATA REVIS OCT-THIS TIME IS NOT ACCOUNT ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIO ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGE IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILE 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis	ere is the additional ; DATA REVIS DATA REVISI OCTTHIS INC. ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT)	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGE IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILE 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00	ere is the additional ; DATA REVIS DATA REVISI OCTTHIS INC. ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT)	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGE IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILEProfile Separation 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during line	ere is the additional ; DATA REVIS DATA REVISI DATA REVISI DATA REVISI OFT-THIS TIME IS NOT ACOUNT ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS ; OTHER COMMENTS SPECIFI	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILEProfile Separation 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during line	ere is the additional ; DATA REVIS DATA REVISI DATA REVISI DATA REVISI OFT-THIS TIME IS NOT ACOUNT ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS ; OTHER COMMENTS SPECIFI	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILEProfile-Separate 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during line ALT, 03ND, 03NDUncert, 03NDResol, Prec	ere is the additional ; DATA REVIS DATA REVISI DATA REVISI DATA REVISI OFT-THIS TIME IS NOT ACOUNT ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS dar meas. ; OTHER COMMENTS SPECIFI ision, ChRange, O3MR, O3MRUNCERT, F	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE ress, PressUncert, Temp, TempUncert, AirND, AirNDUncert </pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILEProfile-Separate 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during line ALT, O3ND, O3NDUncert, O3NDResol, Prec 2503.0, 1.143e+018, 2.257e+017, 506.2,	ere is the additional ; DATA REVIS DATA REVISI DATA REVISI DATA REVISI DATA REVISI ; DATA REVISI ; NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS dar meas. ; OTHER COMMENTS SPECIFI ision, ChRange, O3MR, O3MRUNCert, F 14.59, 1.00, 57.92, 12.25, 7.540et	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE ress, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+00</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILEProfile Separation 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during line ALT, O3ND, O3NDUncert, O3NDResol, Prec 2503.0, 1.143e+018, 2.257e+017, 506.2, 2518.0, 9.643e+017, 2.150e+017, 543.8, 2533.0, 9.787e+017, 2.126e+017, 581.3,	ere is the additional ; DATA REVIS DATA REVISI DATA REVISI DATA REVISI DATA REVISI NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS dar meas. ; OTHER COMMENTS SPECIFI ision, ChRange, O3MR, O3MRUNCert, F 14.59, 1.00, 57.92, 12.25, 7.540et 16.77, 1.00, 48.95, 11.58, 7.526et 16.13, 1.00, 49.76, 11.50, 7.512et	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE ress, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+00 002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+00</pre>
R1 There is a "1" for data revision, so here comment that is mandatory, when revision #BEGIN PROFILEProfile Separation 13 1167 2013-05-31, 00:29:26 LidAna v06.25 NOMINAL 2013-05-09, 04:20:30 2013-05-09, 04:20:37 2013-05-09, 04:50:34 NCEP-Analysis 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 NONE 58.8 ppbv mean surface ozone during line ALT, O3ND, O3NDUncert, O3NDResol, Prec 2503.0, 1.143e+018, 2.257e+017, 506.2, 2518.0, 9.643e+017, 2.150e+017, 543.8, 2533.0, 9.787e+017, 2.126e+017, 581.3,	ere is the additional ; DATA REVIS DATA REVISI DATA REVISI DATA REVISI DATA REVISI NUMBER OF HEADER LINES ; NUMBER OF DATA LINES I ; DATA PROCESSING DATE, ; DATA PROCESSING VERSIC ; RESULTS QUALITY (NOMIN ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; PROFILE DATE, TIME (UT ; SOURCE OF A PRIORI Pre ; SOURCE DATE, TIME (UT) ; SOURCE LONGITUDE, LATI ; OPERATOR COMMENTS dar meas. ; OTHER COMMENTS SPECIFI ision, ChRange, O3MR, O3MRUNCert, F 14.59, 1.00, 57.92, 12.25, 7.540et 16.77, 1.00, 48.95, 11.58, 7.526et 16.13, 1.00, 49.76, 11.50, 7.512et	<pre>ION # (if value >0 then provide text below) ION DETAILS, NEWEST ON TOP ON DETAILS, NEWEST ON TOP IEC IOF IN AGC IN THIS PROFILE"S HEADER (AFTER THIS LINE) N THIS PROFILE TIME N AL, FAIR, POOR)) START) END) MEAN ss, Temp, AirND USED TO DERIVE OZONE MIXING RATIO TUDE, ELEVATION (degE, degN, m) C TO THIS PROFILE ress, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+00 002, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+00</pre>

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18
        ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)
v1.0
        ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA
2
        ; NUMBER OF PROFILES IN THIS FILE
14
        ; NUMBER OF DATA COLUMNS FOR ALL PROFILES
ALT, m, Altitude above sea level (center of sampling bin)
                                                                     ; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measured)
                                                                     ; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty ; COLUMN 3
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution
                                                                     ; COLUMN 4
Precision, %, Measurement Precision
                                                                      : COLUMN 5
ChRange, #, Channel Range (1.0 to N.0, nearest-field to farthest-field) ; COLUMN 6
                                                                      ; COLUMN 7
O3MR, ppbv, Ozone Mixing Ratio (derived)
O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty
                                                                     ; COLUMN 8
Press, hPa, Air Pressure used to derive Ozone Mixing Ratio
                                                                     ; COLUMN 9
                                                                     ; COLUMN 10
PressUncert, hPa, Air Pressure Standard Uncertainty
Temp, K, Air Temperature used to derive Ozone Mixing Ratio
                                                                     ; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty
                                                                     ; COLUMN 12
AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio ; COLUMN 13
AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty ; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999 ; MISSING DATA VALUES
7
                                                       ; NUMBER OF GENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUMENT NAME
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov
                                                       ; PI AND CONTACT INFO
Table Mountain, CA
                                                       ; SITE NAME
242.300, 34.4000, 2285.00
                                                       ; SITE LONGITUDE, LATITUDE, ELEVATION (degE, degN, m)
R1
                                                        ; DATA REVISION # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DATA REVISION DETAILS, NEWEST ON TOP
comment that is mandatory when revision is not "0" ; DATA REVISION DETAILS, NEWEST ON TOP
 BEGIN PROFILE ;-----
13
                                             ; NUMBER OF HEADER LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE)
1167
                                            ; NUMBER OF DATA LINES IN THIS PROFILE
2013-05-31, 00:29:26
LidAna v06.25
NOMINAL
2013-05-09, 04:20:30
                                           ; DATA PROCESSING DATE, TIME
                                            ; DATA PROCESSING VERSION
                                            ; RESULTS QUALITY (NOMINAL, FAIR, POOR)
                                            ; PROFILE DATE, TIME (UT) START
2013-05-09, 05:20:37
                                            ; PROFILE DATE, TIME (UT) END
2013-05-09, 04:50:34
                                             ; PROFILE DATE, TIME (UT) MEAN
NCEP-Analysis Number of Profile Headersines ines notes, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
2013-05-09, 12:00:00
                                            ; SOURCE DATE, TIME (UT)
242.300, 34.4000,
                      2285.00
                                            ; SOURCE LONGITUDE, LATITUDE, ELEVATION (degE, degN, m)
NONE
                                             ; OPERATOR COMMENTS
58.8 ppbv mean surface ozone during lidar meas. ; OTHER COMMENTS SPECIFIC TO THIS PROFILE
ALT, O3ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert;
2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526e+002, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003
2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512e+002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003
2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.498e+002, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003
```

Quick self-extraction Step 8: Read number of data lines in profile

18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)	
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS FILE	
14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES	
ALT, m, Altitude above sea level (center of sampling bin)	; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty	; COLUMN 3
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.0, nearest-field to farthest-field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)	; COLUMN 7
O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty	; COLUMN 8
Press, hPa, Air Pressure used to derive Ozone Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
	; COLUMN 11
	; COLUMN 12
	; COLUMN 13
	; COLUMN 14
-9999, -99	
	ENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUMENT	
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov ; PI AND CONT	ACT INFO
Table Mountain, CA ; SITE NAME	
242.300, 34.4000, 2285.00 ; SITE LONGIT	UDE, LATITUDE, ELEVATION (degE, degN, m)
R1 ; DATA REVISI	CON # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DATA REVISI	ON DETAILS, NEWEST ON TOP
comment that is mandatory when revision is not "0" ; DATA REVISIO	N DETAILS, NEWEST ON TOP
#BEGIN PROFILE ;	
; NUMBER OF HEADER LINES	IN THIS PROFILE"S HEADER (AFTER THIS LINE)
(1167) ; NUMBER OF DATA LINES IN	
2013-05-31, 00:29:26 ; DATA PROCESSING DATE, T	
LidAna v06.25 ; DATA PROCESSING VERSION	
NOMINAL ; RESULTS QUALITY (NOMINA	
2013-05-09, 04:20:30 ; PROFILE DATE, TIME (UT)	
2013-05-09, 05:20:37 ; PROFILE DATE, TIME (UT)	
	s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
2013-05-09, 12:00:00 ; SOURCE DATE, TIME (UT)	
	UDE, ELEVATION (degE, degN, m)
NONE ; OPERATOR COMMENTS	
58.8 ppbv mean surface ozone during lidar meas. ; OTHER COMMENTS SPECIFIC	
ALT, O3ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Pr	ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.540e+0	02, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526e+0	02, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003
2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512e+0	
2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.498e+0	
	71

⊥ Number of data lines in profile (*nalt(iprof*))

18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)	
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS FILE	
14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES	
ALT, m, Altitude above sea level (center of sampling bin)	; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Unce	rtainty ; COLUMN 3
O3NDResol, m, Ozone Number Density Standardized Vertical Resolutio	n ; COLUMN 4
Precision, %, Measurement Precision	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.0, nearest-field to farthest-f	ield) ; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)	; COLUMN 7
03MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty	; COLUMN 8
Press, hPa, Air Pressure used to derive Ozone Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
Temp, K, Air Temperature used to derive Ozone Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density used to derive Ozone Mixing R	atio ; COLUMN 13
AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty	; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -99	
7 ; NUM	BER OF GENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INS	TRUMENT NAME
	AND CONTACT INFO
Table Mountain, CA ; SIT	E NAME
242.300, 34.4000, 2285.00 ; SIT	E LONGITUDE, LATITUDE, ELEVATION (degE, degN, m)
	A DEVITATION # (if and is a bar and id that had and
KI / DAI	A REVISION # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DAT	
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP
	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE'S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE'S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE'S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE'S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR)
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT)
There is a "1" for data revision, so here is the additional ; DATcomment that is mandatory when revision is not "0"; DATA#BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m)
There is a "1" for data revision, so here is the additional ; DATcomment that is mandatory when revision is not "0"; DATA#BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS
There is a "1" for data revision, so here is the additional ; DATcomment that is mandatory when revision is not "0"; DATA#BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS SPECIFIC TO THIS PROFILE
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS SPECIFIC TO THIS PROFILE cert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS SPECIFIC TO THIS PROFILE cert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS SPECIFIC TO THIS PROFILE cert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 7.526e+002, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) END IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS SPECIFIC TO THIS PROFILE cert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 7.526e+002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) START IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS SPECIFIC TO THIS PROFILE cert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 7.526e+002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003 7.512e+002, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003
There is a "1" for data revision, so here is the additional ; DAT comment that is mandatory when revision is not "0" ; DATA #BEGIN PROFILE ;	A REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP REVISION DETAILS, NEWEST ON TOP R LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) LINES IN THIS PROFILE DATE, TIME VERSION (NOMINAL, FAIR, POOR) IME (UT) START IME (UT) START IME (UT) MEAN ORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO ME (UT) E, LATITUDE, ELEVATION (degE, degN, m) TS SPECIFIC TO THIS PROFILE cert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert ; 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 7.526e+002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003 7.512e+002, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003

Quick self-extraction Steps 10+: If more than 1 profile in file, repeat steps 6 through 9 until end of file

18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)	-
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS FILE	
14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES	
ALT, m, Altitude above sea level (center of sampling bin)	; COLUMN 1
	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty	; COLUMN 3
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.O, nearest-field to farthest-field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)	; COLUMN 7
O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty	; COLUMN 8
	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
Temp, K, Air Temperature used to derive Ozone Mixing Ratio TempUncert, K, Air Temperature Ratio Standard Uncertainty	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio	; COLUMN 13
AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty	; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999	9, -9999, -9999, -999 ; MISSING DATA VALUES
7 ; NUMBER OF GE	ENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUMENT N	NAME
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov ; PI AND CONTA	ACT INFO
Table Mountain, CA ; SITE NAME	
242.300, 34.4000, 2285.00 ; SITE LONGITU	UDE, LATITUDE, ELEVATION (degE, degN, m)
R1 ; DATA REVISIO	ON # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DATA REVISION	ON DETAILS, NEWEST ON TOP
comment that is mandatory when revision is not "0" ; DATA REVISION	N DETAILS, NEWEST ON TOP
#BEGIN PROFILE ;	
13 ; NUMBER OF HEADER LINES 1	IN THIS PROFILE"S HEADER (AFTER THIS LINE)
1167 ; NUMBER OF DATA LINES IN	THIS PROFILE
1167; NUMBER OF DATA LINES IN2013-05-31, 00:29:26; DATA PROCESSING DATE, TILidAna v06.25; DATA PROCESSING VERSIONNOMINAL; RESULTS QUALITY (NOMINAL2013-05-09, 04:20:30; PROFILE DATE, TIME (UT)2013-05-09, 05:20:37; PROFILE DATE, TIME (UT)2013-05-09, 04:50:34; PROFILE DATE, TIME (UT)NCEP-Analysis; SOURCE OF A PRIORI Press	IME
LidAna v06.25 ; DATA PROCESSING VERSION	
NOMINAL ; RESULTS QUALITY (NOMINAI	L, FAIR, POOR)
2013-05-09, 04:20:30 ; PROFILE DATE, TIME (UT)	START
2013-05-09, 05:20:37 ; PROFILE DATE, TIME (UT)	END
2013-05-09, 04:50:34 ; PROFILE DATE, TIME (UT)	MEAN
NCEP-Analysis ; SOURCE OF A PRIORI Press	s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
2013-05-09, 12:00:00 ; SOURCE DATE, TIME (UT)	
242.300, 34.4000, 2285.00 ; SOURCE LONGITUDE, LATITU	UDE, ELEVATION (degE, degN, m)
NONE ; OPERATOR COMMENTS	
58.8 ppbv mean surface ozone during lidar meas. ; OTHER COMMENTS SPECIFIC	TO THIS PROFILE
ALT, O3ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Pre	ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.540e+00	
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526e+00	
2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512e+00	
2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.498e+00	02, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003
,	· · · · · · · · · · ·

Other remarks: TOLNet Format version is for future use only

; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE) TOLNET Format version in effect on data extraction at the moment) 14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES ALT, m, Altitude above sea level (center of sampling bin) ; COLUMN 1 O3ND, molec.m-3, Ozone Number Density (measured) ; COLUMN 2 O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty ; COLUMN 3 O3NDResol, m, Ozone Number Density Standardized Vertical Resolution ; COLUMN 4 Precision, %, Measurement Precision : COLUMN 5 ChRange, #, Channel Range (1.0 to N.0, nearest-field to farthest-field) ; COLUMN 6 ; COLUMN 7 O3MR, ppbv, Ozone Mixing Ratio (derived) O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty ; COLUMN 8 Press, hPa, Air Pressure used to derive Ozone Mixing Ratio ; COLUMN 9 PressUncert, hPa, Air Pressure Standard Uncertainty ; COLUMN 10 Temp, K, Air Temperature used to derive Ozone Mixing Ratio ; COLUMN 11 TempUncert, K, Air Temperature Ratio Standard Uncertainty ; COLUMN 12 AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio ; COLUMN 13 AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty ; COLUMN 14 -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999 ; MISSING DATA VALUES 7 ; NUMBER OF GENERAL COMMENTS LINES (AFTER THIS LINE) JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUMENT NAME Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov ; PI AND CONTACT INFO Table Mountain, CA ; SITE NAME 242.300, 34.4000, 2285.00 ; SITE LONGITUDE, LATITUDE, ELEVATION (degE, degN, m) **R1** ; DATA REVISION # (if value >0 then provide text below) There is a "1" for data revision, so here is the additional ; DATA REVISION DETAILS, NEWEST ON TOP comment that is mandatory when revision is not "0" ; DATA REVISION DETAILS, NEWEST ON TOP 13 ; NUMBER OF HEADER LINES IN THIS PROFILE"S HEADER (AFTER THIS LINE) 1167 ; NUMBER OF DATA LINES IN THIS PROFILE 2013-05-31, 00:29:26 ; DATA PROCESSING DATE, TIME LidAna v06.25 ; DATA PROCESSING VERSION NOMINAL ; RESULTS QUALITY (NOMINAL, FAIR, POOR) 2013-05-09, 04:20:30 ; PROFILE DATE, TIME (UT) START 2013-05-09, 05:20:37 ; PROFILE DATE, TIME (UT) END ; PROFILE DATE, TIME (UT) MEAN 2013-05-09, 04:50:34 ; SOURCE OF A PRIORI Press, Temp, AirND USED TO DERIVE OZONE MIXING RATIO NCEP-Analysis ; SOURCE DATE, TIME (UT) 2013-05-09, 12:00:00 242.300, 34.4000, 2285.00 ; SOURCE LONGITUDE, LATITUDE, ELEVATION (degE, degN, m) NONE ; OPERATOR COMMENTS 58.8 ppbv mean surface ozone during lidar meas. ; OTHER COMMENTS SPECIFIC TO THIS PROFILE ALT, O3ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert; 2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.540e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003 2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526e+002, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003 2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512e+002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003 2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.498e+002, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003

Other remarks (2): Prescribed content (in red) must appear as is

18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)	
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
2 ; NUMBER OF PROFILES IN THIS FILE	
14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES	
ALT, m, Altitude above sea level (center of sampling bin)	; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertain	
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution	; COLUMN 4
Progision, %, Measurement Precision	; COLUMN 5
ChRange #, Channel Range (1.0 to N.0, nearest-field to farthest-field)	
OSMR ppbv, Ozone Mixing Ratio (derived)	; COLUMN 6 ; COLUMN 7 TOLNet Format version 1.0
O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty	; COLUMN 8 prescribes 14 columns
Press, APa, Air Pressure used to derive Ozone Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
Temp, K, Air Temperature used to derive Ozone Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio	; COLUMN 13
AirNDUncert, malec.m-3, Air Number Density Standard Uncertainty	; COLUMN 14
9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -	9999, -9999, -9999, -999 ; MISSING DATA VALUES
7 ; NUMBER O	F GENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUME	NT NAME
	ONTACT INFO
Table Mountain, CA ; SITE NAM	E
	GITUDE, LATITUDE, ELEVATION (degE, degN, m)
	ISION # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DATA REV.	
	SION DETAILS, NEWEST ON TOP
#BEGIN PROFILE ;	
13 Data variable short names	ES IN THIS PROFILE"S HEADER (AFTER THIS LINE)
LidAna v06.25 ; DATA PROCESSING VERS	
NOMINAL ; RESULTS QUALITY (NOM	
2013-05-09, 04:20:30 ; PROFILE DATE, TIME (•
2013-05-09, 05:20:37 ; PROFILE DATE, TIME (1	
2013-05-09, 04:50:34 ; PROFILE DATE, TIME (1	
NCEP-Analysis ; SOURCE OF A PRIORI P:	ress, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
2013-05-09, 12:00:00 ; SOURCE DATE, TIME (U	T)
242.300, 34.4000, 2285.00 ; SOURCE LONGITUDE, LA	TITUDE, ELEVATION (degE, degN, m)
NONE ; OPERATOR COMMENTS	
58.8 ppbv mean surface ozone during lidar measure OTHER COMMENTS SPECI	FIC TO THIS PROFILE
ALT, O3ND, O3NDUncert, O3NDResol, Precision ChRange, O3MR, O3MRUncert,	Press, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;
2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.5400	e+002, -9.999e+003, 276.80, -9999.00, 1.973e+025, -9.999e+003
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526	
	e+002, -9.999e+003, 276.72, -9999.00, 1.970e+025, -9.999e+003
2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512	
2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.5120 2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.4980	e+002, -9.999e+003, 276.66, -9999.00, 1.967e+025, -9.999e+003

Other remarks (3): Keep metadata string length short if at all possible

18 ; NUMBER OF GENERAL HEADER LINES (AFTER THIS LINE)	
v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
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ALT, m, Altitude above sea level (center of sampling bin)	; COLUMN 1
O3ND, molec.m-3, Ozone Number Density (measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty	
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.0, nearest-field to farthest-field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)	; COLUMN 7
O3MRUncert, ppbv, Ozone Mixing Ratio Combined Standard Uncertainty	; COLUMN 8
Press, hPa, Air Pressure used to derive Ozone Mixing Ratio	; COLUMN 9
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
Temp, K, Air Temperature used to derive Ozone Mixing Ratio	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio	; COLUMN 13
AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty	; COLUMN 14
-9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999,	
	ENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidar ; INSTRUMENT	
Table Mountain, CA	uncated if length>60 characters
	UDE, LATITUDE, ELEVATION (degE, degN, m)
242.300, 34.4000, 2285.00 ; SITE LONGIT R1 ; DATA REVISI	ON # (if value >0 then provide text below)
There is a "1" for data revision, so here is the additional ; DATA REVISI	
	N DETAILS, NEWEST ON TOP
#BEGIN PROFILE ;	
	IN THIS PROFILE"S HEADER (AFTER THIS LINE)
1167 ; NUMBER OF DATA LINES IN	
2013-05-31, 00:29:26 ; DATA PROCESSING DATE, T	
LidAna v06.25 ; DATA PROCESSING VERSION	
NOMINAL ; RESULTS QUALITY (NOMINA	
2013-05-09, 04:20:30 ; PROFILE DATE, TIME (UT)	
2013-05-09, 05:20:37 Strings will be prefite of the later (01)	
2013-05-09, 05:20:37 2013-05-09, 04:50:34 Strings will be profile Date, Time (UT)	gtn>48 characters
NCEP-Analysis ; SOURCE OF A PRIORI Pres	s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO
2013-05-09, 12:00:00 ; SOURCE DATE, TIME (UT)	S, TEMP, ATTAD USED TO DERIVE OZONE MIXING RATIO
	UDE ELEVATION (doge dogn m)
	UDE, ELEVATION (degE, degN, m)
NONE ; OPERATOR COMMENTS	
58.8 ppbv mean surface ozone during lidar meas. ; OTHER COMMENTS SPECIFIC	
ALT, O3ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Pr	
2503.0, 1.143e+018, 2.257e+017, 506.2, 14.59, 1.00, 57.92, 12.25, 7.540e+0	
2518.0, 9.643e+017, 2.150e+017, 543.8, 16.77, 1.00, 48.95, 11.58, 7.526e+0	
2533.0, 9.787e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 7.512e+0	
2548.0, 9.205e+017, 2.070e+017, 618.7, 16.66, 1.00, 46.90, 11.20, 7.498e+0	02, -9.999e+003, 276.70, -9999.00, 1.963e+025, -9.999e+003

Other remarks (4): Presence and position of commas (,) and semicolons (;) are critical formatting elements (separators)

•	
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v1.0 ; TOLNET STANDARDIZED FORMAT VERSION FOR PROFILE DATA	
2 ; UMBER OF PROFILES IN THIS FILE	
14 ; NUMBER OF DATA COLUMNS FOR ALL PROFILES	
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O3ND, molec.m-3, Ozone Number Density (measured)	; COLUMN 2
O3NDUncert, molec.m-3, Ozone Number Density Combined Standard Uncertainty	: COLUMN 3
O3NDResol, m, Ozone Number Density Standardized Vertical Resolution	; COLUMN 4
Precision, %, Measurement Precision	; COLUMN 5
ChRange, #, Channel Range (1.0 to N.O, nearest-field to farthest-field)	; COLUMN 6
O3MR, ppbv, Ozone Mixing Ratio (derived)	; SOLUMN 7
O3MRUncert, Cobv, Ozone Mixing Ratio Combined Standard Uncertainty	; COLUMN 8
Press, hPa, Aix Pressure used to derive Ozone Mixing Ratio	; COLUMN 9
	· · · · · · · · · · · · · · · · · · ·
PressUncert, hPa, Air Pressure Standard Uncertainty	; COLUMN 10
	; COLUMN 11
TempUncert, K, Air Temperature Ratio Standard Uncertainty	; COLUMN 12
AirND, molec.m-3, Air Number Density used to derive Ozone Mixing Ratio	; COLUMN 13
AirNDUncert, molec.m-3, Air Number Density Standard Uncertainty	
-9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999, -9999,	
	ENERAL COMMENTS LINES (AFTER THIS LINE)
JPL-Table Mountain Facility Tropospheric Ozone Lidax ; INSTRUMENT N	NAME
Thierry Leblanc, JPL, leblanc@tmf.jpl.nasa.gov ; PI AND CONTA	ACT INFO
Table Mountain, CA ; SITE NAME	
	IDE LATITUDE ELEVATION (dear dean m)
	JDE, LATITUDE, ELEVATION (degE, degN, m)
R1 ; DATA REVISIO	<pre>DN # (if value >0 then provide text below)</pre>
R1 ; DATA REVISIO There is a "1" for data revision, so here is the additional ; DATA REVISIO	DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP
R1 ; DATA REVISIO There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
R1 ; DATA REVISIO There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
R1 ; DATA REVISIO There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP
R1 ; DATA REVISIO There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISION #BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE''S HEADER (AFTER THIS LINE)
R1 ; DATA REVISIO There is a "1" for data revision, so here is the additional ; DATA REVISIO comment that is mandatory when revision is not "0" ; DATA REVISIO #BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE
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R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE'S HEADER (AFTER THIS LINE) THIS PROFILE IME
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISION#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR)
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISION#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END
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R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISION#BEGIN PROFILE ;	ON # (if value >0 then provide text below) ON DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN
R1; DATA REVISIONThere is a "1" for data revision, so here is the additional; DATA REVISIONcomment that is mandatory when revision is not "0"; DATA REVISION#BEGIN PROFILE ;	DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN S, Temp, AirND USED TO DERIVE OZONE MIXING RATIO JDE, ELEVATION (degE, degN, m)
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	<pre>DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP IN THIS PROFILE"S HEADER (AFTER THIS LINE) THIS PROFILE IME L, FAIR, POOR) START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO JDE, ELEVATION (degE, degN, m) TO THIS PROFILE</pre>
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	<pre>DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP NIT S PROFILE START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO JDE, ELEVATION (degE, degN, m) TO THIS PROFILE ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;</pre>
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	<pre>DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON TOP NIT S PROFILE START END MEAN s, Temp, AirND USED TO DERIVE OZONE MIXING RATIO JDE, ELEVATION (degE, degN, m) TO THIS PROFILE ess, PressUncert, Temp, TempUncert, AirND, AirNDUncert ;</pre>
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	<pre>DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON T</pre>
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional; DATA REVISIOcomment that is mandatory when revision is not "0"; DATA REVISIO#BEGIN PROFILE ;	<pre>DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON T</pre>
R1; DATA REVISIOThere is a "1" for data revision, so here is the additional ; DATA REVISIOcomment that is mandatory when revision is not "0"#BEGIN PROFILE ;1311672013-05-31, 00:29:26LidAna v06.25NOMINAL2013-05-09, 04:20:302013-05-09, 04:20:302013-05-09, 04:50:34NCEP-Analysis2013-05-09, 12:00:00242.300, 34.4000, 2285.00NONES0NES0ND, O3NDUncert, O3NDResol, Precision, ChRange, O3MR, O3MRUncert, Pre2503.0, 1.143e+018, 2.257e+017, 50, 2, 14.59, 1.00, 57.92, 12.25, 7.540e+002518.0, 9.643e+017, 2.126e+017, 581.3, 16.13, 1.00, 49.76, 11.50, 512e+00	<pre>DN # (if value >0 then provide text below) DN DETAILS, NEWEST ON TOP N DETAILS, NEWEST ON T</pre>
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