DAURE Data Formatting

Agreed to by all participants present at 2nd science meeting at IJA on 10-March-2009

Summarized by Jose, pls send comments to jose.jimenez@colorado.edu

Data specifications

File name convention

Example: 20090310_PTRMS_BCN_rev2.txt

- Date is last day of measurements included in the file
- Revision starts at 0, incremented when data is changed (not when data is added)

File format convention

Date_Time Species1 Species2

10/03/2009 12:50:49 12341 1233

- Pay attention to the exact format for the date and time
- tab-delimited (not space-delimited)
- Only one carriage return (ASCII code 13 or chr(13)) at end of the line

On the top of each data file

- Contact person email and phone number
- Local time or standard time or UTC or GMT
- When reporting $\mu g\ m^{-3}$
  - Specify conditions of m^3: recommend either STP (273.15K & 1 atm) or local conditions (local T & P). Others are OK but please specify
- Specify what you are reporting for missing data (we recommend -999)
- Copy and paste into each datafile

Recommended practice for gaps

10/03/2009 12:50:49 12341 1233
10/03/2009 12:50:50 -999 - 999
10/04/2009 12:50:51 12341 1233

i.e. when you have long gaps (longer than the normal distance between your measurement datapoints, please introduce a fake datapoint as a separator for plotting programs

New data versions

Original file:
20090310_PTRMS_BCN_rev0.txt

20090311_PTRMS_BCN_rev0.txt
- added measurements
- data up to the 10th have not changed

20090312_PTRMS_BCN_rev1.txt
- means that some data have been revised
- and

A single file that keeps increasing the revision number at the end of the campaign, e.g.:
20090327_PTRMS_BCN_rev0.txt
20090327_PTRMS_BCN_rev1.txt
20090327_PTRMS_BCN_rev2.txt

Example of AMS Datafile

DAURE campaign 2009
Preliminary data file
Created: 1603cet 2009-03-06
Point of contact: Mike Cubison, michael.cubison@colorado.edu
Created by: Amber Ortega, amber.ortega@colorado.edu
PI: Jose-Luis Jimenez, University of Colorado
Instrument: Aerodyne HR-ToF-AMS, http://cires.colorado.edu/jimenez-group/ToFAMSResources/
Data Type: Sub-micron aerosol mass loadings as reported with collection efficiency of 1.
Location: Montseny rural site

Notes:
V-mode data only.
Corrections applied to this dataset include basic frag adjustments for water, air, organics. Ammonium requires further analysis.
Ionisation efficiency value applied is mean average of calibrations performed on following dates: 1/3/09, 2/3/09. The spread of IE/AB values recorded in the calibrations used to quantify this dataset is 0.4%.
Loadings are reported in micrograms per cubic metre at ambient pressure and temperature.
See accompanying file for time stamp.

Org_SQug_Diff		NO3_SQug_Diff		SO4_SQug_Diff	NH4_SQug_Diff
	Chl_SQug_Diff				
3.99 6.24	1.62	2.81	0.12		
3.97 6.33	1.59	2.85	0.12		
3.87 6.14	1.59	2.77	0.11		
3.93 6.12	1.58	2.75	0.11		
-999.00	-999.00	-999.00	-999.00	-999.00	
4.01 6.43	1.55	2.87	0.12		
3.95 6.27	1.60	2.82	0.11		
3.89 5.95	1.66	2.72	0.10		