

Strasbourg Time Series Data Meeting

5th - 6th December 2017, Main building, "salle de cours".

Invited

Thomas Boch (Wednesday), Francois Bonnarel, Baptiste Cecconi (Tuesday), Sebastien Derrière, Gilles Landais (Tuesday afternoon, Wednesday morning), Pierre Le Sidaner (Tuesday), Mireille Louys (Tuesday afternoon and Wednesday morning), Laurent Michel, Marco Molinaro, Dave Morris, Jiri Nadvornik, Ada Nebot, Francois-Xavier Pineau, Jesus Salgado (apologies).

Please, bring your data, and read the section at the end.

Agenda / guideline

Tuesday: DAL, models and serialisation

- 09h30 Coffee
- 10 - 12 Meeting:
 - Ada: What is time Series? Minimal requirements for Time Series data discovery & access.
 - Baptiste: EPNCore, what is there and what can be used?
 - Discussion on minimal requirements, metadata until agreement
- 12 - 14 Lunch
- 14 - 16 Meeting
 - Jiri: status of his Note on Time Series Data. — practical examples of VOTables
 - Mireille/Francois/Laurent: summary of revision / modifications proposed. VOTable example
 - Francois: examples of VOTable
- 16h Coffee
- 16:30-18h Work on the serialisation of data all together or in small groups to make things work:
 - Ada: PTF data (ZTF & LSST kind of data we will expect).
 - Laurent: XMM-Newton data, very rich type of data (events, fluxes, hardness ratio, images, spectra...), although this might be the most complicated case.

Wednesday: practical examples, metadata and serialisation

- 09h30 Coffee
- 10 - 12 Meeting:
 - Sebastian: Data from Vizier, data of big/small catalogues.
 - Marco: Data from GAPS
 - Jesus: Data from Gaia (apologies) - Dave
 - Work on the serialisation all together or in small groups to make things work.
- 12 - 14 Lunch
- 14 - 16 Meeting:
 - Work on the serialisation all together or in small groups to make things work.
- 16 - 16:30 coffee
- 16:60 - 18h
 - Work on the serialisation all together or in small groups to make things work.

Lunch at <http://villabianca.free.fr/>

In preparation for the meeting

Things to make the discussion efficient:

- a. Read the Note on Time Series Data Model from Jiri Nadvornik (V1.0, 2017-02-05, <http://wiki.ivoa.net/internal/IVOA/IvoaVOEvent/cubeDM.PDF>)
- b. Minimal metadata: Good description of time. Have a look at the document and email from Arnold Rots so as to follow the IAU rules and to be sure we don't make any mistake. A.R. is also the author of the STC document, so this should help too.
- c. We can use the info compiled from VizieR and Gaia (and others) for the interop in Santiago (session1) to collect the metadata concerning TimeSeries from a couple of catalogues from VizieR (2MASS, SDSS, AllWISE, small table containing light curve). In particular:
- d. Prepare a VOTable "a la SED" with all the relevant information: the discussion in TDIG/DAL/DM session 2 in Santiago should give us the starting point.
- e. Please do have a look at the information that has been documented at the TDIG VO webpage, section TimeSeries: <http://wiki.ivoa.net/bin/view/IVOA/IvoaVOEvent> in particular: http://wiki.ivoa.net/twiki/bin/view/IVOA/DAL_DM_TDIG

Goal of the meeting:

At the end of this workshop we should have something that can be presented at the next IVOA. In terms of:

1. Minimal requirements
2. Concrete serialisation of data based on examples taken from:
 - a. VizieR examples, small/large tables
 - b. GAPS data
 - c. Gaia data
 - d. PTF data (precursor of ZTF, again precursor of LSST)
 - e. XMM-Newton (for events)

A summary document will be written and sent around to the participants for comments. This might be added to the IVOA wiki and sent around to the TDIG.