

VESPA-JRA-T5-Toulouse-Feb-2017

Preparation of the Task Meeting at IRAP, February 23-24 2017

- Objectives
 - Identify commonalities, functionalities, and interfaces between the various developments made at IRAP, UCL, and IAP
 - Identify the datasets available in the CDPP AMDA tool that can be used in the tools developed at UCL and IAP
- Brainstorming
 - Add a SAMP interface to the tool developed at UCL and IAP in order to send/receive data to/from the CDPP AMDA tool
 - Link the database of model runs available at UCL to the data tree in the CDPP AMDA tool (using EPN-TAP and as remote database following the IMPEX developments)
 - Work on an interface similar to TRANSPLANET in order to do and archive runs on request from the giant planet magnetodisc simulation (VESPA/PSWS)

Participants

- IRAP: [Nicolas André](#), [Gangloff Michel](#), [Vincent Génot](#), [Myriam Bouchemit](#), [Nathanael Jourdan](#)
- OBSPARIS: [Baptiste Cecconi](#), [Pierre Le Sidaner](#)
- UCL: [Nicholas Achilleos](#), [Patrick Guio](#)
- IAP: [Jan Soucek](#), [David Pisa](#), Benjamin Grison

Agenda

Thursday 23/02 10:00-18:00 IRAP salle Gervais de Lafond

10:00-10:15 Welcome and objectives of the meeting
10:15-10:30 Updates on EPN-TAP and EPN-TAP services (B. Cecconi)
10:30-10:45 Updates on UCL giant planet magnetodisc service (N. Achilleos / P. Guio)
10:45-11:00 Updates on UCL Jupiter thermosphere/ionosphere service (N. Achilleos)
11:00-11:15 Updates on IMPEX Data Model (M. Gangloff)
11:15-12:30 Discussion: data model and archive

Lunch at IRAP (cafeteria)

14:00-14:30 Updates on IAP tool (J. Soucek / D. Pisa)
14:30-14:40 Updates on AMDA/3DView tools (V. Génot / M. Gangloff)
14:40-14:50 Presentation of SAMP (B. Cecconi)
14:50-16:00 Discussion: connections between tools/services

Coffee break

16:30-16:40 Updates on PSWS services (N. André)
16:40-17:00 Updates on IRAP Transplanet service (A. Goutenoir / M. Bouchemit)
17:00-18:00 Discussion: runs on request

Team dinner 20:00

Friday 24/02 IRAP salle Gervais de Lafond

10:00-10:30 Summary of discussions
10:30-10:40 Presentation of VOEvent (P. Le Sidaner / M. Gangloff)
10:40-12:00 Discussion: alert services for PSWS
Lunch
13:40-14:00 PSWS Test at IAP (J. Soucek / D. Pisa)
14:00-14:30 Preparation of Mid-term reports (B. Cecconi / N. André)
14:30-16:00 Implementation of VOEvent (P. Le Sidaner / M. Gangloff)
16:00-17:00 Discussion: runs on request (N. Achilleos / P. Guio / B. Cecconi / N. André)

Minutes

UCL : EPN-TAP service starting (DACHS server ready, epn-core scheme existing)

- Matlab to NetCDF : custom script to be build :
 - Standard ? CF 1.6 & NetCDF (LATMOS) to be compared, then script mid-April (UCL)
- Ingestion in 3DView :
 - Feasibility on 3DView to use (rho, Z) coordinates ? mid-March
 - Test file to be sent ASAP
 - Representation ? meridian cut (X,Z) plane
 - Implementation (1 test file) mid-May
- Previews :
 - Definition : thumbnail of main parameter, png format, size 200x200
- Building the database
 - Definition of the filtering parameters mid-April
 - Library of models (magnetodiscs Jupiter, thermosphere Jupiter) end of June
- Fly a S/C in the model
 - Predefined runs for Juno, JUICE end of June
 - Remote access in AMDA to be demonstrated (for ingestion in AMDA best format is VOTable or cdf for time-series) end of June
- Bonus : VOISE service to be reactive
 - Service still working or to be re-activated mid-March
 - Tutorial on SAMP connector (Paris workshop) mid-April
 - If yes, implement SAMP connection on the VOISE webpage end of June
 - Add VOISE in the VESPA portal (for fits)
- Workshop OBSPARIS/UCL/Graz/IRAP/LATMOS in Paris to be decided (Data Model, Data Format, SAMP) mid-March (OBSPARIS) (05/06/07 April or early May)

IAP

- Define the needs of iPECMAN for input data file; specifications of the inputs
 - Specification of inputs end of March
- Generic CDF file to be ingested in iPECMAN ; entity mapping between input CDF and internal model end of May
- SAMP to be implemented in iPECMAN end of March
- How to recognize in VESPA a file can be sent to iPECMAN ? (OBSPARIS, IAP) end of May
 - include spectral matrix concept in UCD
- Output file : CDF format (to be sent to other tools like autoplot) end of June
 - Review of the output format (OBSPARIS, IRAP, IAP) end of June
- Add iPECMAN in the VESPA portal -> end of June
- Limited spectral matrix datasets but some available at PDS & VWO; study if they can be connected through SAMP for example – e.g., Cassini search coils, POLAR, THEMIS end of August

AMDA

- solar wind datasets from Cassini ; check availability ; ingest in AMDA if relevant (Matthew Hill, will they extend their datasets in time ?)

UCL/PSWS

- run on request feasible with magnetodisc models ; to be implemented at IRAP based JRA3 and Transplant experiences
- executable to be provided by UCL to IRAP
 - Architecture (Matlab compiler) ask Pierre-Louis
 - Model executable to be provided to IRAP mid-March
 - Generation of input config file (matlab format)
 - Tutorial on simulation mid-April
 - Web interface mid-April
 - Link service with IMPEX end of June
 - XML Tree to be built
 - IMPEX webservice to be implemented (getdatapointvalueSC)
 - Submit a prototype to UCL for review
 - Open service end of August
- thermosphere/ionosphere coupling at Jupiter : define steady-state conditions from SW dyn pressure time series (Tao model) and link relevant time intervals to simulation runs (VESPA archive)
 - end of August (IRAP mainly)

VOEvent

- mirror sites to be done at OBSPARIS and IRAP
- tutorial to be done by Pierre (1st step : Comet, 2nd step : complete deployment) by mid-April
- Install the full set up for UCL and EHU by early May
- Invite SRC & EHU to Windsor to install the full setup on May 02

PropTool

- VOTable from PropTool catalogue functionality not working (put quotes around name = CME)

Action Items

- Patrick Guio 16 Apr 2017 : Build Matlab netCDF script
- Laurent Beigbeder 15 Mar 2017 : Feasibility on 3DView to use (rho, Z) coordinates
- Laurent Beigbeder 15 May 2017 : Implementation (1 test file)
- Patrick Guio 16 Apr 2017 MDISC service: Preview files = thumbnail of main parameter, png format, size 200x200
- Patrick Guio 16 Apr 2017 MDISC service: Definition of the relevant filtering parameters
- Patrick Guio 30 Jun 2017 MDISC service: Full library of models (magnetodiscs Jupiter, thermosphere Jupiter)
- Patrick Guio 30 Jun 2017 Fly a S/C: Predefined runs for Juno, JUICE
- Patrick Guio 30 Jun 2017 Remote access in AMDA to be demonstrated (for ingestion in AMDA best format is VOTable or cdf for time-series)
- Patrick Guio 15 Mar 2017 VOISE: Service still working or to be re-activated
- Baptiste Cecconi 04 Apr 2017 Organize VESPA/IMPEX workshop
- Patrick Guio 30 Jun 2017 SAMP on VOISE
- Cyril Chauvin, Stéphane Erard, Baptiste Cecconi 30 Jun 2017 If VOISE has SAMP: add VOISE in VESPA portal for FITS image processing
- David Pisa 31 Mar 2017 iPECman specifications
- David Pisa 31 May 2017 Generic CDF file to be ingested in iPECMAN ; entity mapping between input CDF and internal model
- David Pisa 31 Mar 2017 SAMP to be implemented in iPECMAN
- David Pisa, Baptiste Cecconi 31 May 2017 How to recognize in VESPA a file can be sent to iPECMAN
- Baptiste Cecconi 19 May 2017 Propose to include spectral matrix concept in UCD list
- David Pisa 30 Jun 2017 Output file : CDF format (to be sent to other tools like autoplot)
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- David Pisa, Baptiste Cecconi, Vincent Génot **30 Jun 2017** Review of the output format (OBSPARIS, IRAP, IAP)
- Cyril Chauvin, Stéphane Erard, Baptiste Cecconi **30 Jun 2017** Add iPECMAN in the VESPA portal
- David Pisa, Baptiste Cecconi **31 Aug 2017** Study limited spectral matrix datasets but some available at PDS & VWO
- Patrick Guio 15 Mar 2017 Model executable to be provided to IRAP
- Nicolas André **16 Apr 2017** Web interface for run on demand
- Nicolas André **30 Jun 2017** Link service with IMPEX
- Nicolas André **31 Aug 2017** Open service
- Pierre Le Sidaner **16 Apr 2017** Tutorial for VOEvent implementation
- Baptiste Cecconi, Pierre Le Sidaner, Patrick Guio, Jon Juaristi-Campillo, SRC **02 May 2017** Invite SRC & EHU to Windsor to install the full setup on May 02