



SBN Report

Mike A'Hearn & Eric Palmer



Overview



- Overall issues - Mike
- Rosetta – Mike
- Dawn – Eric
 - plus a bit on PDS4 migration



Compliant Missions



- BOPPS
 - waiting for context objects, otherwise archivable
 - Context objects received this AM from Richard C
- New Horizons
 - data downlink takes forever
- O-REx
 - product design reviews going well
- Others
 - too early to tell (Hayabusa 2, AIDA, Discovery 2014, etc.)



New Initiatives at SBN



- New Co-I, Bo Yang, expert in searching diverse datasets
 - New institution = Bowie State University
 - Will advise on structuring collections and bundles and on valuable metadata (PDS4 implications)
 - Details still to be worked out



Non-mission Issues



- MPC
 - Will it remain at CfA?
 - How to get deliveries out of the red
- PDS4 -UM-PSI split allows two approaches
 - PSI – migrating data as part of OLAF adaptation to PDS4
 - UMd - Delayed BOPPS archive and most migration to avoid large effort of rebuilding registry database once context objects are added



Data Management Plans



- [http://sbndev.astro.umd.edu/wiki/ROSES Data Managment Plan Tips](http://sbndev.astro.umd.edu/wiki/ROSES_Data_Managment_Plan_Tips)
- Very few proposers ask us to look at DMP
 - Some are trivial but others could take a lot of time not in baseline budget
 - Does this put us in a conflict of interest position if we advise on proposal content?
- Most requests for letters merely want us to affirm that their data are suitable for archiving with SBN
 - Useful for our internal planning
- Letter template circulated for general agenda item



Significant Accomplishments



- Conducted first systematic review of a reference frame/coordinate system
 - 67P/C-G document refereed, liens resolved, final edits by mfa suggested to author
 - circulated to folks reviewing proposed Ceres coordinate system and to chairman of IAU WG
 - Available on SBN (and PSA) web site
 - Will be part of dataset including various shape models
 - Ceres review is on track
- Rewriting small bodies section of IAU WG triennial report



Significant Accomplishments



- BOPPS

- First large scale “Earth-based” project to archive entirely in PDS4
- One training session on PDS4 and they produced the entire archive themselves (Ray Espiritu at APL)
 - Context objects not included yet because of PDS4 issues with context objects
- No design work by SBN, no relaxation of standards, no last minute requests for fixes
- Aiming for one flight per year, of order 1-3 TB/yr



Rosetta

Mike A'Hearn



Overview



- Continues to be a large time-sink
 - not quite a black hole but close
- External peer review now planned
- Releasing current data as “certified” through release at PSA
 - allows US scientists to access the data as publicly released in a permanent archive (PSA) but get the data directly from PDS-SBN



Data Delivery



- Two deliveries 'required' by mid-September
 - PRL = Pre-Lander phase (due mid-June 2015)
 - ESC1 = First escort phase = through March 2015
 - Except OSIRIS!
 - 1 year proprietary period
 - 1st delivery through June 2014, 2nd delivery rest of PRL
- Still issues with format/syntax compliance



Raw/Calib Data



* - means partial											
Released											
Has Errors											
Data Errors											
Delivered Only											
Phase:	PRL				ESC1						
Level:	2	3	4	5	2	3	4	5	Note		
ALICE	Has Errors					Has Errors				Index files need to be fixed. ESC1 has some c	
COSIMA	Released					Delivered Only				Potential problem though. Since COSIMA is a	
GIADA	Released					Delivered Only					
MIDAS	Released					Delivered Only					
MIRO	Has Errors					Delivered Only				Still has minor issues to resolve, and data files	
NAVCAM	Released				* Released				ESC1 released thru Feb 10. ESC1 thru Mar 11		
OSIRIS		* Released							PRL released thru June 2014.		
ROSINA	Released					Delivered Only					
RPCICA	Released					Delivered Only					
RPCIES	Released					Delivered Only					
RPCLAP	Has Errors					Delivered Only				Has minor errors. PSA is in the process of spli	
RPCMAG	Released		Released								
RPCMIP		Has Errors							Minor fixes needed		
RSI	* Delivered Only	* Delivered Only							6 days only so far. RSI has one data set per da		
VIRTIS	Delivered Only										



Lander Data



	Phase:	PHC/PDCS/SDL/RBD/FSS						
	Level:	2	3	4	5			
APXS		Red						Lots of errors.
CIVA		Red	Red					Lots of errors.
CONSERT		Yellow	Yellow					Mostly minor errors.
COSAC		Red	Red					Lots of errors.
MUPUS		Red	Red					Lots of errors.
PTOLEMY		Yellow	Yellow					Mostly minor errors.
ROLIS		Red						Lots of errors.
ROMAP-MAG		Yellow	Red		Red			Lots of errors.
ROMAP-SPM		Yellow						Lots of errors.
SD2		Red	Red					Lots of errors.
SESAME								Nothing delivered



Other Data



- SREM – missing even from PSA tracking
- Lander engineering data
 - Shock absorber data critical for understanding strength of surface
 - Thermal data critical for above
- Higher level products
 - Shape models – some reviewed, some promised for “sometime in the future”
 - Other products – only ALICE and MIP



Shifting Responsibilities



- SBN playing major role in creating shape model dataset
- PSA fixing problems in data from MIP & will likely lead preparation of SREM data and Philae engineering data
- Joint PSA-SBN validation
- Peer review
 - Probably late Jan or early Feb
 - For now – liens only on future deliveries, fixing currently delivered data probably after EOM
- Continuing time sink for ≥ 2 years



DAWN

Eric Palmer