Pulsar Pipeline Checklist

	tasks	Developer
BG/P		
	Design/preparatory work for BG/P 2nd transpose	John Romain, Jan David Mol
	Implement BG/P 2nd data transpose	Rob van Nieuwpoort
	Document "new" BFout stream (post 2nd transpose)	Jan David Mol
	Test and bug fix 2nd transpose	Rob van Nieuwpoort, Jan David Mol, John Romain
SAS / MAC		
	Integrate of OLAP into SAS/MAC	Alwin de Jong, Ruud Overeem
	Integrate of TAB module into SAS/MAC	Jan David Mol, Ruud Overeem
BF2H5		
	Merge USG repository as svn external package into LOFARSOFT	Alwin de Jong, Lars Baehren, Marcel Loose
	Integrate DAL "BF" and "Common" classes into BF2H5	Alwin de Jong
	Integrate parset reader into BF writer w/in LOFARSOFT	Alwin de Jong, Jan David Mol
	Integrate new BF H5 data format (ICD) into BF2H5 (raw data)	Alwin de Jong
	Integrate new BF H5 data format (ICD) into BF2H5 (BG/P out data)	Alwin de Jong, Jan David Mol
	Extract UDPcopy and IonProc out of LOFARSOFT	Alwin de Jong, Jan David Mol
	Extract parameterDB out of LOFARSOFT	Alwin de Jong, Jan David Mol
	Create standalone BF2H5 tool	Alwin de Jong, Masaya
BF ICD		
	Create mock BF H5 files with 4 types of data storage containers	A2
	Benchmark (DAL C++) 4 storage types to choose optimum BF container	A2
	Finalize BF ICD	A2, L. Baehren, J. Romain, JD Mol, J. Hessels, K. Anderson
	Perform benchmarking on H5 chunking	K. Anderson, A2, L. Baehren
	Identify source of metadata values (& calculations)	Alwin de Jong, R. Overeem, J. Hessels
	Profile BF Observations (& Pipeline) for typical stats on sizes	J. Hessels, B. Stappers, M. Wise
USG Software Repository		
Integrate Pulsar SW into USG	Integrate FFTW-3.1.2 into cmake	A2
	Integrate PPGPLOT into cmake	A2
	Interate TEMPO into cmake	A2
	Integrate PRESTO into cmake	A2
	Integrate SIGPROC into cmake	A2
	Test software installation/components on new cluster	A2, J. Hessels, B. Stappers
	Test software installation/components on user machines	Pulsar Group
DAL	Create DAL classes for BF metadata and structure (abide by ICD)	Lars Baehren, A2
	Create DAL methods to access data from BF structure (abide by ICD)	Lars Baehren, A2
	Wrap BF DAL classes and methods with Python for PyDAL	A2, Lars Baehren, K. Anderson
	Ongoing PyDAL updates and bugfixes	A2, Lars Baehren, Frank B.
	Integrate HDF5 into file I/O for Presto/TEMPO/etc	A2
Related Tools	Update/maintain/expand "convert" program for ongoing BF observations	A2, Jan David Mol
	Integate "convert" into cmake (?)	A2
Pulsar Pipeline		
	Design Pulsar Pipeline for basic onserving modes	J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise
	Decide how to distribute the Pulsar Pipeline	M. Wise, L. Baehren, J. Hessels, A2, J. Swinbank
	Implement Pulsar Pipeline Design within the iPython Framework	A2, K. Anderson, J. Swinbank
	Pipeline Testing	A2, K. Anderson, J. Swinbank, J. Hessels, B. Stappers, J. Van Leeuwen

| | Release Pulsar Pipeline | M. Wise |
| | Design Pulsar Pipeline(s) for other observing modes including survey | J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise |

Archive

	<mark>Sync Archive schema with BF ICD</mark>	A. Renting, A2, L. Baehren, M. Wise, R. Overeem
	Archive Pulsar raw data	A. Renting
	Archive Pulsar Pipeline Processed data	A. Renting, A2

Misc.

| | Remove PGPLOT from PRESTO | Lars Baehren, A2 |
| | Work with the VO on format/protocol issues for LOFAR HDF5 data | ? |

Commissioner	Expected date of readiness	remarks
	in process, 1-2 months	
Rob van Nieuwpoort, John Romain, Jan David Mol	1-2 months	check whether Rob only works for ASTRON 1-day per week
Jan David Mol, Alwin	1-2 days	
Rob van Nieuwpoort, Jan David Mol, Alwin de Jong, Jason Hessels	1-2 weeks	
Alwin de Jong, Ruud Overeem		
Jan David Mol, Ruud Overeem		
Alwin de Jong	in process, 1-week	
Alwin de Jong		
Alwin de Jong		
Alwin de Jong, A2, J. Hessels		
Alwin de Jong, A2, J. Hessels, Jan David Mol		
Alwin de Jong		
Alwin de Jong		
Masaya, James Anderson		
A2	Done	4 types are: 1D arrays, ND arrays, 1D tables, ND tables (note ND arrays are memory limited)
A2, Jason Hessels	1-2 weeks	
A2, Lars Baehren, J. Romain, JD Mol, J. Hessels, M. Wise		
		not necessary for completion of the pipeline
		should be a chart in the ICD to view typical data sizes for types of observations
	Done	
	Done	note, depends on system install of PGPLOT
	Pending	problems with reading files with line length > 70 chars
	1 week	
		not 100% sure this is needed
The Pulsar Group	in process	
		Ramesh would like a copy of the software suite within cmake
	in process	
The Pulsar Group		
	in process	need to formalize the to-do and bug list
The Pulsar Group		
A2, Jan David Mol, J. Hessels		needs documentation and upgrade to accept command line parameters
A2		
The Pulsar Group		create use-cases and map these to tools/parameter settings
		do we need to integrate the Transient S/W repository with the USG S/W repository?
A2, K. Anderson, J. Swinbank		
A2, J. Hessels, B. Stappers, J. Van Leeuwen		

not needed for completion of first pipelline release

A. Renting, A2, J. Hessels	in process	meetings took place to mesh the LOFAR ICD with the Archive schema
A. Renting, A2, J. Hessels, M. Wise		
A. Renting, A2, J. Hessels, M. Wise		
The Pulsar Group		investigate S2PLOT or some other package which can be used in general for LOFAR data plotting
?		not needed for pipeline release