Pulsar Pipeline Checklist		
·	tasks	Developer
BG/P	TAB Pipeline	John Romain, Jan David Mol, Rob van Nieuwpoort
	Design/preparatory work for BG/P 2nd transpose	John Romain, Jan David Mol, Rob van Nieuwpoort
	Implement BG/P 2nd data transpose	Jan David Mol
	Document "new" BFout stream (post 2nd transpose)	Jan David Mol
	Test and bug fix 2nd transpose	Jan David Mol, John Romain
	Integrate phase correction into TAB module (from Imaging results)	Jan David Mol, John
	Implement Phase-Frequency correction due to cable lengths	John Romain, Michiel B.
	Implement LOFAR center as LBA center position of station CS002	Chris B.
	Implment on-the-fly squashing of channels per subbands for BF (IM+BF obs	<mark>)</mark> Jan David Mol
	Implement proper Stokes I,Q,U,V on the BG/P	Jason, Jan David, John Romein
	Seperate BF from IM data writing on subclusters and disks	Jan David Mol
	Coherent De-dispersion on CEP	Jason, Jan David, John Romein
SAS / MAC/MoM	Integrate of TAB module into SAS/MAC	Jan David Mol. Ruud Overeem
SAS / WAC/WOW	Offline Pipeline connection to SAS/MAC	John Swinbank, Ken Anderson, A2, Ruud Overeem
	MoM connection to SAS/MAC	Jason, Hanno, Antonis
	Multiple BF observations with MOM-templates	Nico, Jason, A2
	Processing multiple BF MOM-observations automatically (shell script pipe)	A2
	Multiple Imaging observations with MOM-templates	A2, George, John McKean, Roberto Pizzo
	Multi-Beam IM/BF + piggy-backing obs w/MOM-templates	A2
	4 BF-related switches; allows MOM obs name seperate column; BF pos input	
	BF-Observing Cookbook	Ashish
BF2H5 online version	BeamFormed Writer (1st version to OLD ICD spec)	Alwin de Jong
	Test svn externals when building LOFARSOFT with the DAL	Lars Baehren, Marcel Loose, Alwin de Jong
	Integrate DAL classes into BF2H5	,
	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)	•
	Integrate new BF H5 data format (ICD) into BF2H5 (BG/P out data)	Jan David Mol
	Test writing 248 subands at once to check efficiency	
BF ICD	Create mock BF H5 files with 4 types of data storage containers	A2
ы ю	Benchmark (DAL C++) 4 storage types to choose optimum BF container	A2, L. Baehren
	Finalize BF ICD	A2, L. Baehren, J. Romain, JD Mol, J. Hessels, K. Anderson
	Identify source of metadata values (& calculations)	Hanno, R. Overeem, J. Hessels, M. Wise, Alwin de Jong, A2, B. Stappers
	Profile BF Observations (& Pipeline) for typical stats on sizes	J. Hessels, B. Stappers, M. Wise
		o. Hessels, D. Stappers, IVI. Wise
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
	Hook in Coordinate Group-related material into the DAL.	Lars
	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
D. Leave Transfer	D. 11 - 11 - (1100 11	A con Add a NAC and I am

**Pulsar Tools** 

Daily build of USG repository on offline cluster
Integrate FFTW-3.1.2 into cmake
Integrate PPGPLOT into cmake
Integrate TEMPO into cmake
Integrate PRESTO into cmake
Integrate SIGPROC into cmake
Integrate SIGPROC into cmake
Integrate PSRCHIV into cmake
A2
Integrate PSRCHIV into cmake
A2
Integrate PSRCHIV into cmake
A2

	Integrate SSPS (Single Pulse sw and docs) into cmake	A2, Thijs Coenen
	Integrate PSRDADA into cmake	A2
	Integrate DSPSR into cmake	A2
	Test software installation/components on new cluster	A2, J. Hessels, B. Stappers
	Test software installation/components on user machines	Pulsar Group
	Integate "convert" (bf2presto) into cmake	A2
		Tom Hassall, A2, Jan David Mol
	Assist Pulsar Group with integration of tools/scripts into cmake & USG	A2; Lars
	Maintain/upgrade Pulsar shell script pipeline	A2, Pulsar Group
	Move some Pulsar packages to extenal for automated download instead of U	
	Create Pulsar Test datasets and cmake automated test-suites for code sanity	
	,	
Pulsar Pipeline Integration	Design Pulsar Pipeline for basic observing 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
	Write "how-to" run the Known Pulsar Pipeline w/in the Framework	Ken
	Pipeline GUI demo with decision on usefulness (Nov 1-5)	Ken
	Pipeline Framework issues/problems/hickups action items	Ken, John S., A2, Adriaan
	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
	Integrate prototype Pulsar Search Pipeline (script) into USG (summer studen	<mark>r</mark> A2, Vlad
	Integrate new Pulsar Search Pipeline into USG (w/Git)	Thijs, Lars, A2
	Pulsar Search Pipeline - testing - upgrade with SSPS software	Thijs
	Clarify observing modes/parset switches with pipeline functionality.	A2, Jason, Ken
BF2H5 offline version	Extraction process of parameterDB out of LOFARSOFT & distribute offline	Mike to assign this issue to different group
	Create standalone BF2H5 tool	Jan David
	UDP reader/interpreter library (UK)	Alessio, Aris, Chris, Fred, Ben
	Integrate PELICAN & PELICAN-LOFAR into USG	Lars
	Link Pelican-LOFAR with PELICAN and DAL	Jan David, Lars, Oxford Group
	TCP-packet convert module for Pelican	Jan David
	HDF5 data writer module for Pelican	Jan David
Archive	Sync Archive schema with BF ICD	A. Renting, A2, L. Baehren, M. Wise, R. Overeem
	Archive Pulsar raw data	A. Renting
	Archive Pulsar Pipeline Processed data	A. Renting, A2

Commissioner Jan David Mol, Jason Hessels	Expected date of readiness Done in early 2009	
John Romain, Jan David Mol Jan David Mol Jan David Mol, Jason Hessels JD, Jason Michiel B., Jason Hessels Chris B. Jason, Jan David Mol Jason, Jan David, John Romein Jason, Jan David Mol PWG	Done several weeks (mid-Apr) 1-2 days 1-2 weeks	John, Jan David and Rob have completed the discussions; 4-phased for transpose prep, then transpose will no longer be involved; Jan David will implement the entirety of the 2nd transpose
Jan David Mol, Ruud Overeem John Swinbank, Ken Anderson, A2, Ruud Overeem		Need to ask Jan David for a status on this issue; rumor has it that this is working John is working with Ruud on the messaging/communication aspect
A2, Jason A2, Jason Roberto Pizao, George, John McKean A2, Jason, George A2, Jason, Ashish Ahish, A2, Jason, RO		
Alwin de Jong, J. Hessels Alwin de Jong, Marcel	Done in process, 1-week	Working again; can read parset file and feed keys to header; works w/o UDP Lars has spoken to Marcel and emailed relevant info; Lars to touch base with Marcel to implement ir
Alwin de Jong A2, J. Hessels A2, J. Hessels, Jan David Mol Jason		
A2 A2, Jason Hessels A2, Lars Baehren, J. Romain, JD Mol, J. Hessels, M. Wise	Done 1-2 weeks	4 types are: 1D arrays, ND arrays, 1D tables, ND tables (note ND arrays are memory limited) DAL is missing Array/Table real() methods from sub-groups; Lars to add functionality before benchm John Romain's comments and James Anderson's comments integrated; moved Coord Group; may c Put this as an adgenda item for discussion during the next BF status meeting should be a chart in the ICD to view typical data sizes for types of observations; waiting on Jason
	in process	implemented three highest tiers of H5 structure (not yet lowest tier where the data structures are)
Lars, A2, Ken, JM The Pulsar Group The Pulsar Group	in process	need to formalize the to-do and bug list
A2 fixing seg fault & other issues on new cluster build Ben Stappers, Joeri Ben Stappers	Done Done Done 1-2 weeks	Mike to start up the process of asking Arno to include this in a daily build note, depends on system install of PGPLOT workaround for problems with reading files with line length > 70 chars; fix requested to developer accelsearch sef fault (non LOFAR data); cmake external dependencies can be made smarter (Lars)  Does not build on the Mac (needs specific version of X11)
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A2, Thijs Coenen, Joeri Does not build on the Mac (needs specific version of X11) Ben Stappers Ben Stappers The Pulsar Group in process fixing problems as they unfold in process; low priority Ramesh would like a copy of the software suite within cmake; TEMPO doesn't build on Mac OS 10.6 A2. Tom Hassall A2. Tom Hassall, Jan David Mol. J. Hessels Tom needs to check in his version into the ISG repository A2, Tom Hassall A2 updated to use 8-cores per mode; speed increase 5-6 times A2, Lars A2 The Pulsar Group create use-cases and map these to tools/parameter settings; start at PBW #6 do we need to integrate the Transient S/W repository with the USG S/W repository? current SH scripts pipeline described and sent to Ken: John & Ken to meet about iPhython Framewo A2, K. Anderson, J. Swinbank A2, J. Hessels, B. Stappers, J. Van Leeuwen Ken, A2, PWG PWG John S., Adriaan, Ken not needed for completion of first pipelline release A2, Vlad Thijs, Lars, A2 Thijs + Pulsar Group A2 Masaya, James Anderson Alessio, Aris, Chris 1st version Apr 7th on target to meet one month deadline from start-up of project Lars Jan David, Oxford group Jan David, Lars, A2, Oxford group A. Renting, A2, J. Hessels meetings took place to mesh the LOFAR ICD with the Archive schema in process A. Renting, A2, J. Hessels, M. Wise A. Renting, A2, J. Hessels, M. Wise