

**POSSUM MILESTONES FOR JAN – JUN 2011**

The POSSUM project has ten working groups, as follows:

- WG 1 (Simulations and Imaging): Russ Taylor
- WG 2 (Source Finding): Jeroen Stil
- WG 3 (Survey Strategy): Rainer Beck
- WG 4a (External Hardware): Ettore Carretti
- WG 4b (BETA and Commissioning): Ettore Carretti
- WG 5 (Data Format and Access): Lisa Harvey-Smith
- WG 6 (Ionospheric Calibration): James Anderson
- WG 7 (Single-dish Data): Maik Wolleben
- WG 8 (Rotation Measure Synthesis): Bryan Gaensler
- WG 9 (Science Simulations): George Heald & Jeroen Stil
- WG 10 (Multi-wavelength Coordination): Marijke Haverkorn

The table below lists reports that will be submitted to CSIRO for POSSUM-specific milestones for the first six months of 2011.

Milestone	Person(s) Responsible	WG	Date Due
Algorithm for RM synthesis of point sources	Robishaw	8	31 Jan 2011
Draft report on recommended changes to Duchamp	Stil	2	1 Feb 2011
Draft data verification plan, including list of automated tests to be applied to data	Harvey-Smith	5	15 Feb 2011
Report on issues and problems with current simulations	Robishaw	1	16 Feb 2011
Overall description / flow chart of RM pipeline	Gaensler / Landecker / Taylor	8	28 Feb 2011
Final report on recommended changes to Duchamp	Stil	2	28 Feb 2011
Quantification of modules within RM pipeline, with input/output for each	Gaensler	8	28 Feb 2011
Draft specification of interface between POSSUM WGs 2/5/8 (including catalogue entries and how to calculate them)	Harvey-Smith	2/5/8	28 Feb 2011
Algorithm to assess whether an RM spectrum is simple or complex	S. Brown	8	28 Feb 2011
Report to ASKAP Computing summarising complexity of proposed algorithm for correction of ionospheric Faraday rotation, and nature of required input data	Anderson / Landecker	6	15 Mar 2011
Algorithm to ascribe detection or non-detection of signal in RM spectrum	Stil / George	8/2	31 Mar 2011
Report summarising external surveys relevant to POSSUM, including contact contact points and agreed collaborations	Haverkorn	10	31 Mar 2011
Report on ATCA observations of polarised calibrators	O'Sullivan	1	1 May 2011
Identification of list of issues that will arise relating to sources that are extended or have spatial offsets in polarisation in image plane	Stil / Rudnick	2	15 May 2011
Submission of preliminary algorithm for correction of ionospheric Faraday rotation, giving details of its performance	Anderson / Landecker	6	15 May 2011

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Milestone	Person(s) Responsible	WG	Date Due
Demonstration that RM algorithms can recover correct result for simple sources	Robishaw / S. Brown	8	31 May 2011
Tabulation of options for RMCLEAN algorithm	Robishaw / Gaensler	8	31 May 2011
Status report on key science experiments/questions for POSSUM	Heald / Stil	9	31 May 2011
Report on MeqTrees simulations of polarisation errors in ASKAP beam	Willis	1	31 May 2011
Input catalogues for next iteration of polarisation simulations to be submitted to Matt Whiting	Stil / Heald	9	1 Jun 2011
Draft report on recommended changes to Duchamp	Stil	2	1 Jun 2011
Specification of POSSUM level 7 data products	Harvey-Smith	5	15 Jun 2011
Final data verification plan, including list of automated tests to be applied to data	Harvey-Smith	5	15 Jun 2011
Final specification of interface between POSSUM WGs 2/5/8 (including catalogue entries and how to calculate them)	Harvey-Smith	2/5/8	15 Jun 2011
Status report on availability of dual-frequency GPS units at MRO	Carretti	4a	30 Jun 2011
Status report on planning for BETA commissioning activities	Carretti	4b	30 Jun 2011
Status report on minimum and optimal survey parameters	Beck	3	30 Jun 2011
Status report on strategy and timetable for obtaining single-dish data	Wolleben	7	30 Jun 2011
Inventory of available redshift catalogues for POSSUM sources	Leahy	10	30 Jun 2011
Final report on recommended changes to Duchamp	Stil	2	30 Jun 2011