Discuss science project

Admin: where to make these minutes available? – minutes to fourier webserver via wiki link (Tiege)

* Maser parallax observation, 6.7 GHz, Ke, Hb, Cd; future: Ho for weaker masers (and Yg); all systems are working; (Lucas)
* LBA; multi-frequency; wants to use all (but Bt); 3 sessions/yr
* Ho for vela (JimP); gravitational waves; L-band; aim to use dbbc; observing time (2-3 x 17hrs would be optimal); Cd not really viable due to data transport (probably change with new data link)
* Satellite observations with Bt, and Hb; observing for Skynet (using ROACH) with Ho (L-band preferred, alternatively 12m S-band); wide-band/narrow spectrometry
* Pulsar observation with ROACH boards
* Space weather (Prad)
* Asteroid radar tracking (CSIRO, DSN)
* Space domain awareness (DNS transmit, receive Hb, Ke – 7.1 GHz)
* JUICE launch April 2023 – intensive tracking May onwards (8.4 GHz) all telescopes
* Trial bepi-Colombo with Mopra 32 GHz
* MEX (Prad, Jasper) with JIVE collaboration, using Hb, Ke, Yg (8.4 GHz), Cd/Ho possible
* ‘Interesting events’ – flybys; multiple spacecrafts
* IVS observing; vgos 12m, mixed-mode is most likely being adopted; are getting more busy
* AuScope VGOS (Ahmad) – sessions are flexible (can be moved)
* IVS: S/X back on Ho
* L-band satellite observations (DECRA); need for Ho and Cd: splitter in Hb now being put in Ke to do L-band with Hb, Ke
* FrontierSI GNSS calibration; L-band Ho/Cd
* K-band Ho (CRF)
* Pattern of life (David Smith) – cataloguing satellite signals (Hb, Ke in S/X)

Projects:

* DECRA (Satellite observations)
* ARC DP on Masers
* AuScope contract for IVS
* FrontierSI/GA collaboration for GNSS calibration – potential ongoing offer
* LBA
* Skynet (14m)
* JUICE MoU

Operational:

* Scheduling: possibly addressed on merit?

Open discussion:

* 12m: different Field System versions; possibly lack of communication (a Wiki issue?)
* Wiki is too much out of date; needs improvement (RA-Wiki still actual? – yes, but…)
* Scheduling: time allocation p/y might help; or a quarterly meeting for additional observations; better explanations / link to project description + responsible person
	+ Statistics through google calendar
	+ Or different platform (none found yet)
	+ Slack plug-in? room-booking system
	+ Other observatories?
* Website with science projects?
* Andrew Wilkie visited, Simon brought other politicians; feedback is always positive;
* End-of-year bbq with this group

Next meeting:

* Purpose?
* Not too often
* Nov 2, 11am