In attendance:

- @AEI: B. Allen, B. Krishnan, X. Siemens
- @Birmingham: C. Messenger, A. Vecchio
- @CIT: S. Anderson, R. Drever
- @Glasgow: R. Dupuis, M. Pitkin
- @LHO: D. Gustafson, M. Landry, G. Mendell
- @Michigan: K. Riles
- @UIB: A. Sintes

1. Validation/debugging of LALDemod (X. Siemens)

   (a) XS corrected LALComputeAM normalization constants A,B,C
   (b) factor of 4 missing in F statistic of LALDemod; fixed
   (c) F statistic thus has factor of 8 change
   (d) Hence, LALDemod works sometimes (tested with fake data), but not always(!), e.g. LALDemod works when the time baseline is large or the number of frequency bins is large (or both), then the distribution of the F statistic is as expected (chi-square with 4 d.o.f., provided noise is white)
   (e) CM: while testing, noted value of F statistic is proportional to 1/(number of SFTs done). This testing was performed on CM version of LALdemod, essentially the same as that of the CVS. If baseline is the same, but a different number of SFTs are produced, then you get different results that depend on 1/(no.SFTs)
   (f) GM: will check this at LHO to see if can reproduce

2. Knownpulsardemod update (G. Mendell)

   (a) SFT problem noted last week is not problem in code: used Gaby’s lock stretch segments, however, these tell you when you drop lock, but don’t inform you of instability in lock just prior to loss
   (b) glitch prior to lock loss disrupts SFT
   (c) must check SFT quality to ensure they aren’t problematic (for this or some other reason—what if lock is not lost but transient disturbs ifo?)
(d) KR: suggests a DMT entry in database to veto bad segments of data, padding based on this
(e) GM: still needs S1 calibration for SFTs
(f) GM: main focus now is to debug LALdemod
(g) re: mean value and linear trend - GM easily implemented the trend removal - however, just highpass that data and it does all and more. GM suggests just high pass then

3. LIGO calibration (M. Landry)

(a) P. Brady et al are currently exploring two options regarding time-evolution of the calibration: i) LAL code to produce calibrated $\tilde{h}(f)$ at any time, and ii) fallback position of point calibrations valid for a given epoch
(b) LAL code currently exists and is being tested under LDAS v0.4 (expect not to have v0.5 for some time)
(c) reconstructs calibration from frame data (open loop gain and sensing function), plus time series of coefficients
(d) then one could ask for calibrated $\tilde{h}(f)$ at any given time
(e) this could be run as standalone LAL code and thus expedite the sharing of LIGO data to GEO

4. Glasgow update (R. Dupuis)

(a) RD posted at his webpage (http://www.astro.gla.ac.uk/users/rejean/pulsars/) Simulate-TaylorCWTest test
(b) discontinuities in plot suggests problems in Teviet’s simulation code
(c) RD will contact Teviet and ask him to produce similar plot to see if bug is inherent in code

5. Document for November 1st (M. Landry)

(a) document for internal consumption
(b) purpose is to inform the collaboration about the methods used and the results obtained from an UL analysis of S1 data; a roadmap for internal review of methods and results
(c) we have only two weeks left to produce this (shared, CVS controlled) document

6. A.O.B. (All)

(a) SA: 1h of GEO (reduced) S1 data has been mirrored to LDAS sites
(b) SA: LDAS v0.5 release is pushed from this Friday to some time next week
(c) account name, password for S1 investigations page at CW homepage were sent around by Teviet

Next telecon: Thursday, 24 October 2002 at 8:30am PDT (11:30am EDT, 15:30 UTC, 17:30 CET)