

Discussion Overall recommendations:

1. Certain activities (localisation, cross calibration etc) require satellites to work together
2. Having a formal collaboration will be useful if we are to share any data
3. Need collaboration data sharing policy (publicly or within collaboration)
4. Central archive would be functionally effective (standardise formats, access, permanence)
5. Group + living document to share know-how (hardware, vendor experience, simulations, software)
6. Group to advise standard data formats, and cross calibration procedures
7. Interest in sharing information on backgrounds and simulations

- Coordinated observations?
 - No need to plan coordinated observations as instruments are wide field
 - GRB pulses change with energy, so some cross-calibration is important
 - Comptel spectra were hard to analyse, as binning didn't phase up well (with other missions?)
 - Synchronising clocks is much harder. Get event mode data and record it on board, dump some time window around each GRB
 - **Coordinated analysis working group will be very useful**
 - Time tagged data for some time window (with on-board or ground-based trigger) will be useful
- Data sharing policy
 - Various possibilities: Fully public, limited sharing MoU based, not shared
 - Share trigger information v/s share everything
 - Making data public after some delay (1 year?) is useful for the full community
 - Sharing data (in limited team) is important for IPN-like work with triangulation of positions, or even for orientation-based localisation
 - Do you get data access when you join a collaboration, or only when your mission is active?
- Inter-team agreements:
 - Important caveat is that all missions won't have the same time frame - sharing know-how, data format, calibration plans is important
 - Any agreements will have to be of the form that existing collaborations do not object to them
 - Data reliability increases if experienced teams have collaborated on data analysis software
 - An oversight / advisory committee could be formed, but it should be clear what the group gets by providing such advise. We cannot force anyone to do anything
 - **A living document about guidelines will be useful** - but is a lot of work
 - Will be a lot more work if we all do it ourselves
- Raw data v/s pre-vetted products:
 - Sharing just raw data publicly is not useful
 - Response (as a function of direction) is very tough to calculate
 - Standard data products could be recommended, but may or may not be attained
- Sharing ground stations - sharing data?
 - Large missions live for a long time, so public data was okay as in the long run the mission
 - Each group (as mandated by various restrictions) may have different publication and data dissemination policy

- Would be meaningful to have a clear data sharing agreement within a group - if we want to use another mission's data, we agree that we will bring them on board
- Specific science-based collaborations?
- Ground-based collaborations have a lot more competition, but we are getting into a similar phase in space-based high energy observations where many observatories are going to be observing the same thing. We need to proactively come up with policies now
- Central archive
 - Enforces standard data format
 - Easy access for everyone
 - Permanence (as opposed to missing repos seen in ATELS etc, or old BATSE data)
 - Appropriate publication policy (acknowledge X)
 - Access control to be implemented (raw / products, PI-team-public)
- Background and simulations
 - Very useful to share data about what background to use
 - What to expect in various orbits and altitudes
 - Earth / atmospheric scattering of GRBs
 - GEANT4 simulations and know-how