



**Discussion on SSR archive
requirement review**

Ken Tatematsu
& Kouichiro Nakanishi
NAOJ

Observational and Technical Archive

comments 007, 118, 145

- In the original No. 11 document, the technical data seems to be only in the header of (observational) data.
- We thought that we must store the technical data both during observation and when telescope has no observation.
- OK, let us use "observational data" and "technical data" rather than two functionalities of the archive, because it may be misleading.

all data taken is archived

3.7; comments 117, 119, 155, 156

- Whether we can define in detail before experiencing ALMA.
- Before we are sure that which is not necessary, it would be an idea to store what may be necessary.

supervisor of data handling

3.7.1-R1; comment 125

- On managing side, it is very useful to know where the data is at that time such as in the way of pipeline processing, archiving, or in the way to RSC or so, especially in the trouble around data handling.

super-headers, linking etc.

3.7.2-R4; comment 133

- a 'supra' or 'virtual' header describing the sum of observations used; and the results (with, if at all feasible a pointer from low-level to high level (or linked-list)). Note that one observation can be part of many super headers.

Archived as soon as possible

3.7.2-R6; comments 135, 171

- All information shall be archived in SOC/OSF as soon as it is available in coherent units. This will enable headers; logs; raw data in pieces; pipeline parts (like individual channel images) be off-loaded as soon as possible
- Buffer?

Backup: another archive or media

3.7.2-R9; comments 137, 142, 147

- At any rate, we may need some kind of backup (another RSC or ...)

OTF image and stored image & calib. 3.7.2-R13; 139, 140, 152, 153

- The stored image and OTF image should be the same. If we have updated calibration, OTF uses it in case of OTF image. For the stored image, the newly calibrated image will be stored when some user requests the image for the first time after new calibration is available. How do you think?



3.7.4-R13, R19; comments 172, 190

- Date Extractor should read Archive Search Tool. Thanks!

Preview is quick enough?

3.7.4-R10.1; comment 178

- If integrated over relevant velocity and pixels are small, OTF would be fast enough, I think.

ALMA catalog

3.7.2-R1; comments 124, 184

- '... shall include raw data, header information, ...'
All these items should be in the archive but I was missing things like catalogs of line data or calibration sources. Where are they going to be?
- I believe there was an ASAC decision to exclude source extraction as part of the Alma project responsibility. If this is right, what are the "ALMA Catalogues", and who will produce them?

VO

3.7.5-R1,R3;130, 185, 186, 188

- I would suggest to have the VO requirements R1 and R3 (7.5) in the introduction. They are essential requirements from the science point of view
- This requirement says basically, "We don't know what the VO requirements are, but you must meet them, and moreover as Priority 1 [when Interim Science Ops begin]." This will be an exceptionally hard requirement to meet.

Header to be proprietary?

4.6.2; comment 195

- This is stated to sloppy in view of earlier comments in the archiving part that all search information should be available in header. Maybe 'header' should be replaced by 'pre-observational header information' or some other restriction