ORAC Meeting (Oxford)

04/07/2007

Present: *Ludwig Brinckmann, Elies Campmany, Elisa Carboni, Don Grainger, Brian Kerridge, Caroline Poulsen, Richard Siddans and Gareth Thomas*

1 GRAPE

1.1 PROCESSING and ALGORITHM

1.1.1 Current state

- Most of the processing scripts have been stored again on tempranillo and some of them are still being debugged. Some bugs are due to system inconsistencies.
- Ludwig is working on an stereo cloud retrieval from AATSR, which can complement the OE algorithm (specially on high clouds). One imagines this might end up being a pre-processing algorithm with the cloud output height used as an a priori for the GRAPE retrieval. In any event it is important the error in the method is well characterised. Ludwig noted he has detected a shift error of 2-3 pixel on AATSR data (a one pixel error is roughly equivalent to 700 m error in height).
- There was some discussion on whether the cloud algorithm should become dual view with no definite conclusion.

1.1.2 Actions:

- Contact with Peter Chiu to fix the NFS inconsistencies on tempranillo (Elies)

1.2 HOUSKEEPING:

- It was noted that some of the descriptions of GRAPE output on the web are out of date.
- There is a problem with multiple code versions. Ludwig mentioned SVN that allows a more flexible code environment than CVS.

1.2.1 Actions:

- Set strategy for the code updating, using CVS or SVN (Gareth)
- Update output documentation for GRAPE Version 2 (Elies)

1.3 PUBLICATIONS:

- Aerosol Validation Paper (Richard/Caroline) No progress since the last meeting.
- Aerosol Algorithm Paper (Gareth) A draft of the paper has been written.
- Cloud Validation Paper (Elies) No progress since the last meeting.
- Cloud Algorithm Paper (Caroline) Some plots have been produced.

- Paul Palmer will circulate a paper based on some GRAPE results. Don will suggest some additions to the author list.

1.4 USERS:

- Gareth is in contact with Stefan Kinne wrt use of GRAPE data.
- Andy is in contact with Christina Hsu (MODIS Deep Blue) wrt to MODIS AATSR comparison
- We responded to Ellie Highwood's request for information wrt to APPRAISE CP2. There is potential for this work to feed into our aerosol modelling.

1.5 OTHER:

- Gareth gave a report on the Bremen Aerosol Workshop
- EUMETSAT has announced two ITTs closely related to ORAC work due on August 20th (note they will need to go into the Oxford system at least one week before this). It was decided we would jointly apply to each with Elisa taking the lead on *Validation of cloud parameter retrievals from MSG-SEVIRI using A-Train data* and Richard leading *Cloud model for operational retrievals from MSG SEVIRI.* It was agreed to approach Tony Baran to see if he wanted to be a consultant to the Cloud model project.
- Next meeting: To be set after GRAPE is running again (Elies)

2 GLOBAEROSOL

2.1 CURRENT STATE

- It was noted we had passed the quality review due to Richard, Caroline and Gareth's efforts.
- There was discussion on whether the BRDF or even the dual view should be included into the algorithm - Simon Pinnock has written to Gareth on this matter. It was decided to look at the current product and add the BRDF and possibly the dual view if the product was not satisfactory. The possibility of charging for the algorithm improvement was discussed with the conclusion that the benefit of having the full ATSR data processed with the dual view (especially to ADIENT) is worth providing the algorithm.

2.1.1 Actions:

- Gareth to circulate a draft response to Simon Pinnock
- Next meeting: To be set once the GMV DVDs have arrived and we can get some feeling for the quality of the data (probably in the next couple of weeks).