

**EARWiG**

GHRST-XVI

# EARWiG – Improving Functionality

- EARWiG links to many other TAGs & WGs (ST-VAL, IC-TAG, CDR-TAG, HL-TAG, DVWG, IWWG...)
- EARWiG is the primary forum for L2 product improvement
- Regular telecon/WebEx (suggest quarterly)
  - Topic-specific
  - Preparation for focused inter-sessional workshops
  - Use Doodle Polls or similar to optimize timings of telecons (at least to help define regular slots)
- Topics for the coming year
  - SSES methods, validation & use in L4 (lead – AH)
  - Processing to preserve fronts & cold waters (lead – AI)
  - Use of new high-res “next gen” geostationary (Himawari-8) – lead HB
- Chair will email group next week to gather topics and seek leaders to coordinate specific topics and telecons

# Science Topics – channel selection

## Extra channels in modern sensors

- How best to use them?
- Prabhat Koner: Adding aerosol to retrieval vector
  - Improves accuracy
  - Also improves sensitivity to SST
- Hope to use additional sounding channels to improve atmospheric profile shape
  - *N.B.* requires iterative retrieval
- Himawari-8 AHI 8.6, 10.4, 11.1, 12.4 channels used in ACSPO – sufficient to get accurate SSTs with consistent algorithm for day & night (Petrenko)

# Science Topics - Cloud

**Threshold tests in particular are prone to masking clear cold areas & high gradient regions as cloud**

- Irina Gladkova
  - Machine-vision methods to identify clear-sky regions which are likely to fail threshold-based cloud tests
  - By-product is frontal detection, which could be made available
- Avoid the vicious circle of excluding data which then do not get into analyses that are used for QC checking (and may reject “outlier” data in their own QC procedures)

# Science Topics – Use of MDB

- Need for common validation to assess algorithms
- Felyx, *iQuam*/SQUAM
  - Felyx should be released to public early 2016

# Recommendations/Actions

- Much falls on EARWiG, and more envisaged
  - Something like EARWiG is needed
  - Improve inter-sessional communication/collaboration
  - Focus topics, in collaboration with other groups (*e.g.* SSES will involve IC-TAG & ST-VAL)
- Chair to email group(s) next week
  - EARWiG focus topics, and coordinators
- If you're not on the email list, please contact chair and/or vice-chair
  - [Andy.Harris@noaa.gov](mailto:Andy.Harris@noaa.gov), [O.Embury@reading.ac.uk](mailto:O.Embury@reading.ac.uk)
  - *N.B.* Anticipate transition to Owen next year