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Session 3a: Sentinel-2 Level-2 Validation



Summary of the presentations



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- Consistent performance between the new Sentinel-2 Collection-1 products with the latest operational products.
- Classification issues still must be revisited, but overall statistical results are good.
- CMIX inter-comparison exercise is ongoing and quite successful amount of participants. Remember: workshop b the end of September – October.
- PRISMA joins the collection of Sentinel-like sensors: prisma4sen2like. First hyperspectral mission in the family. Geometric issues are now currently solved. Data available to users on demand.
- MAJA 2023 version include several improvements, including CAMS auxiliary data. Aerosol type will be included in next versions.
- Sky CAMs are now deployed in more sites (El Palma Super Site). Participate in the CMIX exercise. Sun affected areas to be masked in further developments.

Discussions points that should considered for further S2VTM



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- New format on SCL to cope and transmit the users the mask confusion.
- Sky CAM could be useful for the validation of cloud shadows. Cloud shadows must be validated together (or linked) to the cloud masking)



Recommendations for future missions



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- Identify the need for additional bands for thin cloud/cirrus detection and avoid confusion with snow
- Identify the need for additional observation for aerosol characterisation => explore the benefit of multi angular observations
- Is surface HDRF the only measurand to consider over land?

Recommendations for improvement



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- Benefit for multi-temporal analysis for cloud shadow detection (MAJA is doing it?)
- Benefit of combining CAMS and DDV pixels for aerosol optical thickness retrieval
- Do we have enough targets for surface reflectance validation (beyond RadCalNet)
- How to specify the BOA surface reflectance accuracy in case of varying aerosol optical thickness?
- For cloud masking, additional efforts are needed to define the corresponding measurand, is COD enough? (cloud phase, particle radius, cloud height, ...)
- Analyse the need to harmonise the surface reflectance definition (measurand type) over land and water