

Minutes of Meeting

Meeting Name	: OSI SAF Operation Review 10
Meeting Reference	: EUM/TSS/MIN/14/778177, v1A
Date(s) of Meeting	: 28 and 29 October 2014
Place of Meeting	: Météo-France
Minute Taker	: Dominique Faucher
Participants	: See in section 1
Distribution	: Participants, Steering Group
Attachments	: <Att>

Conclusion:

The Board thanks the Project Team for its support during this review process.

Regarding Objective 1: *To assess the provided quality of the distributed products against the Service Specification*, the Board noted that although most of the Products have been made available to the users within the Service Specifications, some exceptions were identified such as:

- The OSCAT wind product has been discontinued during the reporting period following an irrecoverable instrument failure on 20 February 2014;
- The South Hemisphere Sea Ice type (OSI-403a) requires further assessment as indicated in information 4 above;
- The quality of the Global Sea Ice Emissivity (OSI-404a) (which is a pre-operational product) could not be assessed, because monitoring results can only be provided after validation of product OSI-404a is finalized (RID OBJ_LSc_24_MET.no).
- The quality of Low resolution Sea Ice drift (OSI-405a) is not monitored and PT indicated that they are reconstructing the monitoring system. Monitoring should be re-started early 2015 (see RID OBJ_LSc_25_MET.no).

Regarding Objective 2: *Committed Services to Users: confirm that the committed Services were provided according to the Service Specifications (including requests for archived products)*. The Board agreed that the service provided to users is of a high quality.

Regarding Objective 3: *Interfaces with EUMETSAT*, the Board had no issue regarding this objective.

1. Introduction

The Operational Review 10 (OR-10) of the Ocean and Sea Ice (Satellite Application Facility - OSI SAF) has been held on 28 and 29 October 2014 at Météo-France (Saint Mandé) as per the organisation note referenced SAF/OSI/CDOP2/M-F/MGT/ON/030.

The objectives of the OR-10 are recalled hereafter:

- **Objective 1:** *To assess the provided quality of the distributed products against the Service Specification.*
- **Objective 2:** *Committed Services to Users: confirm that the committed Services were provided according to the Service Specifications (including requests for archived products).*
- **Objective 3:** *Interfaces with EUMETSAT: confirm that Operations Interfaces have been performed in line with approved JOP/OICD, Operations Procedures and Operation Interface Specifications*

The participants of this OR-10 included:

- *Review Board Membership (see annex 1)*
 - Jörg Ackermann (EUMETSAT)
 - Laurence Crosnier, Mercator-Ocean
- *EUMETSAT Secretariat Support*
 - Dominique Faucher
 - Lothar Schüller
- *OSI SAF Project Team*
 - Cécile Hernandez, Météo-France, Météo-France, OSI SAF Project Manager,
 - Philippe Labrot, Météo-France, Météo-France local manager,
 - Hervé Roquet, Météo-France, OSI SAF Scientific Coordinator,
 - Steinar Eastwood, MET Norway local manager,
 - Anton Verhoef, KNMI local manager,
 - Matilde Jensen, DMI local manager.

The baseline document for this OR-10 is the Service Specification version 2-2, referenced SAF/OSI/CDOP2/M-F/MGT/PL/003.

The datapack included:

- The status of last Operation Reviews actions,
- The last 3 Half Yearly Operations Reports (HYR):
 - 2013 Semester 1,
 - 2013 Semester 2,
 - 2014 Semester 1,

2. Status of previous ORs actions

The status of previous Operations Reviews actions has been assessed and is presented in annex 2. From that assessment, one issue is raised to the attention of the Steering Group:

OR 10-Information 1: interface and monitoring of IFREMER activity

The OR-7-Action-04 raised during the OR 7 in May 2011 was: “*IFREMER to clarify if the use of NAIAD is reported from the FTP statistics provided in the Operation Reports.*”

This information is still not yet reported in the HYR (Half Yearly Operation Report).

The Board therefore raises to the attention of the Steering Group that the operation management interface between IFREMER and the rest of the Project Team is not properly functioning. IFREMER is not providing sufficient monitoring of its activity particularly regarding NAIAD access by users. Project Team further indicated that there is only one point of contact at IFREMER without delegation which creates problems when not available.

3. Assessment of RIDs: major issues

The Board have identified several issues (Review Item Discrepancy - RID) prior to the review, which the Project Team answered (see annex 4). They led to some actions summarised in annex 3. The most important issues are:

OR 10-Information 2: Update of the SeSp and the PRD: a draft update of the Service Specification (SeSp) and the Product Requirement Document (PRD) should be provided to Steering Group for endorsement, with some changes as discussed in the related RIDs) (traced as OR-10-Action-3):

- SeSp: clarify EUMETCast dissemination for OSI-204, (see RID OBJ_DF_03_MF) and remove products which are not in operations (OBJ1_LC_02_MET.no) or not yet released (see RID OBJ_LSc_29_PM).
- SeSp and PRD: change to “*standard deviation*” instead of “*Root Mean Square errors (RMS)*” for winds (Obj1_ackermann_12_KNMI).

OR 10-Information 4: PO-DAAC interface: (RID OBJ_DF_06_MF_KNMI & OBJ_LSc_11_PM)

The reference to PO-DAAC is not identified in the SeSp as an official mean to provide the products to users (Wind and SST products).

The Board believes that the product redistribution policy with any other archive (such as PO-DAAC) should be clarified by Steering Group, bearing in mind that PO-DAAC is already identified in the Project Plan for archiving the wind products (WP 33500 and WP 33600 - Title: SS3 wind production archiving). Such a policy is expected to be embedded into an overall EUMETSAT policy.

The Board has no competence on the way forward, as well as whether to specify it in SeSp / PRD and leaves the Steering Group to decide on the matter, including whether a specific OSI-SAF – PO-DAAC agreement is necessary (data policy, data citation (i.e. include also the data originator in public document), product identification, users service / helpdesk).

Independently, OSISAF does not have the control of which products are hosted by the PO.DAAC and the Board was informed that a product could not be made available via PO-DAAC (i.e. OSI-206 Meteosat SST), although OSI SAF requested that all MSG products in the GHRSSST context be made available via PO-DAAC.

The Board was also informed that PO-DAAC has been recently requested to OSI SAF that all products be identified via a DOI (Digital Object Identifier). This request is new and the consequences not yet fully assessed by the Project Team.

Information 4 on South Hemisphere Sea Ice type (OSI-403a) (see OBJ_LSc_22_MET.no): in discussing the quality monitoring for the South Hemisphere Sea Ice type OSI-403a, the issue of the product quality was raised. The Project Team informed that for the South Hemisphere, the value for the Sea Ice type is set to be “*first year ice*”, not as a result of a retrieval algorithm, but as a forced value. This approach does not seem to be described in the user documentation. The following actions are agreed by the Project Team:

- The Project Team agreed to re-assess the usefulness of this product in south hemisphere, and the impact of this assessment on future products (OSI-403b); (OR-10-Action-19);
- PT to update the SeSp and other documents as necessary (OR-10-Action-3).

4. Conclusions

The Board thanks the Project Team for its support during this review process.

Regarding Objective 1: To assess the provided quality of the distributed products against the Service Specification, the Board noted that although most of the Products have been made available to the users within the Service Specifications, some exceptions were identified such as:

- The OSCAT wind product has been discontinued during the reporting period following an irrecoverable instrument failure on 20 February 2014;
- The South Hemisphere Sea Ice type (OSI-403a) requires further assessment as indicated in information 4 above;
- The quality of the Global Sea Ice Emissivity (OSI-404a) (which is a pre-operational product) could not be assessed, because monitoring results can only be provided after validation of product OSI-404a is finalized (RID OBJ_LSc_24_MET.no).
- The quality of Low resolution Sea Ice drift (OSI-405a) is not monitored and PT indicated that they are reconstructing the monitoring system. Monitoring should be re-started early 2015 (see RID OBJ_LSc_25_MET.no).

Regarding Objective 2: Committed Services to Users: confirm that the committed Services were provided according to the Service Specifications (including requests for archived products). The Board agreed that the service provided to users is of a high quality.

Regarding Objective 3: Interfaces with EUMETSAT, the Board had no issue regarding this objective.

Annex 1: Reviewers directory

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Annex 2: Status of Operation Reviews actions

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-7-Action-02	HL Sea Ice products OSI-411, -412 and -413 have been removed from the web site but are still available in the FTP. They have been superseded by the global products. The Project Team intends to remove it from all archives. Remove these products from the Service Specification.	MET Norway	Done. HL Sea Ice products OSI-411,-412,-413 removed from table 3.3	To be checked by MET Norway for the archive	These files are not in the FTP archive -> Action can be closed	closed
OR-7-Action-04	IFREMER to clarify if the use of NAIAD is reported from the FTP statistics provided in the Operation Reports.	IFREMER	This information is still not yet reported in the QR. However the feasibility has been investigated for O&SI SAF and other similar demands. It requires modification of the software that will be performed this year. Reporting will be possible starting from next year.	Open	Not done yet.	Management issue : raise toSg that the interface with PT and IFREMER are not providing any monitoring. There is only one IFREMER point of contact which does not have delegate when away.
OR-7-Action-06	Triple collocation for SST comparison for error estimation. The OR 6 recommendation 1 to “address triple collocation at the next improvement of the product requiring a validation exercise” has not been implemented yet due to resource limitation. The action remains open and affects SS1 and SS2 and should be addressed.	CMS / MET Norway	The triple collocation technique has been applied to drifting buoy, OSI SAF METOP/AVHRR and EUMETSAT METOP/IASI SSTs, in the context of a study led by EUMETSAT in cooperation with OSI SAF. The results have been published in a RSE paper (A. O'Carroll et al., 2012 : the accuracy of SST retrievals from METOP-A IASI and AVHRR using the EUMETSAT OSI SAF Matchup dataset). It will be possible to routinely apply this triple collocation technique in the future, when a routine Match-Up Data Base for EUMETSAT METOP/IASI SSTs is developed and produced routinely by the OSI SAF at M-F/CMS. This development, which is part of OSI SAF CDOP-2 commitments, is just starting now.	For SS1 work started. SS2 to be done but not as priority. It is agreed that it is a “nice to have” complementary validation of the product.	For SS1 work started. SS2 to be done but not as priority. It is agreed that it is a “nice to have” complementary validation of the product.	for SS1, action completed, the issue has been addressed (see paper provided for IASI SST review) . It has been used for the upgrade of the chain For SS2, closed by stating that it will not be done, with reference by the conclusion of the same paper- CLOSED

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-7-Action-07	Using day time drifting buoys measurement at high latitude for global SST. The action OR 6 Action 11 was to investigate the possibility to use day time drifting buoys measurement at high latitude for global SST and document it in quarterly reports. Project Team recognized that this should be useful but cannot be done as a priority. The Board re-iterates that this activity be performed, either via a Visiting Scientists activity or during CDOP 2. It is however also recalled that it has been done for HL (see validation rep p 7 to 11 of OSI 203 of April 2011, doc MET-Norway /TEC/RT/117), but this action OR 6 action 11, renamed OR 7 action 7 concerns the validation of the Global Metop SST product at high latitudes (standard procedure is to use night time data in validation but at high latitude during summer there is no night due to midnight sun conditions).	CMS	Not done but M-F CMS should implement this action for the next HYRs.	It should be done for the 1st semester 2013 report, available in august	Will be done from next HYR (2014-2)	open
OR-8-Recom-03	Users and dissemination means. It is recommended that Project Team assesses the users lists in line with the dissemination means proposed by the SAF.	PT	Open (SG issue)	open	Not done yet	Proposed to close this issue. Done for EUMETCast, FTP, PO DAAC, UMARF. Closed except the NAIAD part which is addressed in action 4 OR 7 CLOSED
OR-8-Action-03	Information from NAIAD users. To assess the possibility to provide information on OSI SAF products provided to users via NAIAD.	IFREMER	Open	open	Not done yet	see action 4 OR 7 Remains open since different issue as action 4 OR 7
OR-8-Action-04	Graph on complementary statistics on SST quality. Provide a legend in next report for the figures /graph	MF	not done	To be done for next report	?	legend added - CLOSED
OR-8-Action-05	Units in table 1. PT to add units in the table (for example table 11 and 12 in QR 113) when there are only percentage and to add the bias and std deviation	SSI and Sea Ice ?	not done	To be done for next report	?	done for SSI, open for sea ice

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-8-Action-08	Buoy comparisons for ASCAT coastal product in 2010. Investigate / clarify the different v component standard deviation in fig. 52 occurring in December 2010 (if not requiring too much effort).		AV, 26-3-2013: I dug a bit further into the Coastal and 12.5 km buoy collocations from December 2010. I removed 7 out of the 2569 collocations of the 12.5 km product which were obviously wrong due to (most probably) a 180 degrees ambiguity error in the scatterometer wind. By removing those 7 collocations, the standard deviation of the v component reduced from 1.93 to 1.65 m/s. So a very small fraction of the collocations can have a relatively large influence on the statistics.	Issue closed by answer but add an extra disclaimer in the future operation report about the sensitivity of statistics on individual collocation	Not done yet. Will do so in HYR 2014-2	add the disclaimer in next report, e.g. Indicate that the statistics depends on the number of buoys used.
OR-8-Action-11	Limitation of ice charts. Add in the product user manual a sentence regarding the limitation of ice charts for the SH.	MET Norway	Open	Open, to be done on PUM	Done, action can be closed.	closed
OR-8-Action-12	Table 9, section 5.3. Clarify in one sentence in the Ops Report that we use conventional bias and standard deviation.	MET Norway	Not done	open	Done in HYR 2014-1st half -> Action can be closed	closed
OR-8-action-14	Blacklisted buoys. Add in the template and in future report the reference / link to the blacklisted buoys.	MF	not done	It would be simpler to add the link of blacklisted buoys in the report.	?	Closed, done
OR-8-Action-20	Update the map of stations in the website. Provide the link as identified in RID in the PUMs	MET Norway	Not done	open	There is a map of the Flux stations here: http://osisaf.met.no/p/flux/ Øystein Godøy will update the PUM as soon as possible.	PUM has been updated, to be made available on the website. CLOSED (normal work)

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-8-Action-22	Availability of the SST metagranule and the 25 km wind which are obtained via NAIAD. PT to propose an approach to measure availability of the SST metagranule and the 25 km wind which are obtained via NAIAD, and, according to the SeSp, are to be provided with a timeliness of 2 h 45 for the wind and 4 hours for the Full resolution MetOp Sea Surface Temperature metagranules. As part of the assessment, confirm the timeliness value.	IFREMER	The complete archive of SST metagranules is now available through Naiad. The ingestion (and availability) through Naiad is performed in NRT as soon as the metagranules are received. Data are kept online on a internal massive storage system. The 25 km winds will be added very soon and available through Naiad too at the next reporting period.	To be done (archive available for SST, not yet for wind – availability to be provided)	Added in HYR 2014-1st Half - > Action can be closed	action closed and replaced by: OR-10-Action-24 ; status of wind dataset in Naiad to be clarified by PT (the product temporal coverage should be clearly in line with the SeSp). The Report should only identify the users / usage of these data. See also action 4 OR 7
OR-8-Action-23	Gap size for the SZF and SFR product. EUM (JF) to check the gap size for the SZF and SFR product (level 1 b products) and provide the answer to KNMI, and clarify with KNMI the point 2 of the answer by PT. NB: for completeness of the OPS report, all changes including hardware should be identified.	KNMI	Still open, did not contact Julia about this issue. However, EUMETSAT has made progress on the work on the new SZF data format and operational introduction is foreseen soon. This will make this issue obsolete.	Action to remain up to end of June 2013. It should be closed after the technical change of the ASCAT data level 1 update. It will be checked in the next OPS report	Action can be closed now. Availability of Coastal winds differs less than 1% from that of the 25 km winds, as can be seen in HYR 2013-2 and 2014-1.	closed
OR-8-Action-32	Valid users. PM to check the users list, and to remove from the list all users with a non valid mail address.	PM	Not done	open	Not done yet.	Send an e mail to all users to find out which e mail address are not valid. That would at least detect the non-valid users.

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-8-Action-34	Statistics on FTP site. PM to reach within the PT a consensus on how to present in an homogeneous way the products download from FTP in the Ops Report.	PT	not done. Discussions are still open because the different entities of the SAF have a different approach on that.	Closed by ref to OR-8-Action-34	Not done yet	see RID OBJ2_LC_04_PM and OR-10-Action-8
OR-9-Recom-01	It was noted that the EUMETCast service notification does not exist in case of anomaly for the SSML/S data (since it is a third party data). This is a problem for an operational system (data missing/outage during ½ day, without any message) such as the OSI SAF SubSystem2. The Board recommends that EUMETSAT find a way to inform its EUMETCast user, and if necessary escalate the issue to the original data provider. This issue may be extended to all other 3rd Party data.	EUMET SAT Secretari at		To be checked	?	closed by reference to Action OSI-CDOP2-SG03-12;
OR-9-Action-01	The Project Team will update the PRD and the SeSp to propose to Steering Group a target value of 100 000 km2 for the multi-year ice area (and threshold value: 150 000 km2). This requirement is applicable outside the May-September period (1st May to 30 September). Inside this May to September period, the product will not be provided due to ambiguous measurement.	MET Norway		Open	Done, action can be closed.	closed - note: the threshold value in the SeSp is 200000. This is considered still acceptable. Action agreed CLOSED
OR-9-Action-02	The Operation report will be modified to include Standard Deviation of the multi-year ice area (variability) for each month (figure and table).	MET Norway		Open	Done -> Action can be closed	closed
OR-9-Action-03	Regarding Ice type (OSI-403), Project Team to assess the feasibility to provide a ice type map (map with several colors: multi-year, first year, ambiguous) on the web site with October and March means (or better at one date, e.g. 15 Nov and 15 March, to be confirmed after assessing the best stable period), as well as the time series of running mean multi-year ice area and implement if feasible.	MET Norway		To be checked at OR10	Feasible but not a priority	Issue not being a commitment. but it is feasible. CLOSED
OR-9-Action-04	Provide in the report at least one year data (running window) covering the new 6 months report and the previous one, to enable assessment of trend and seasonal effects. If possible, a longer interannual variability display would be useful and very much appreciated for product quality assessment, but the table containing data can limit itself to the last 6 month period (reporting period).	PT		Open	Done -> Action can be closed	closed

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-9-Action-05	Sea Ice Concentration data set (product OSI-409): MET Norway to contact EUMETSAT to verify the proper recognition of this reprocessed dataset in the Product Navigator.	MET Norway		To be checked	<p>11/09/2014 Steinar Eastwood : can the data set be recognized in the Product Navigator without being in the Data Center?</p> <p>11/09/2014 Frederic Gasiglia : I believe that we could do that.</p> <p>We could try also to ingest these 20 years Data Set directly in the Data Center, Cleber will be in touch with you to confirm this.</p>	<p>Mail 27-10-2014: Hello Dominique,</p> <p>This approach has been analysed by OPS and it could be implemented via the PN without the Data Center Ingestion as a first step as suggested in the OR 9 action 05. So it will be done for November this year, as input we need the hyperlink of the MET No in which the Data could be ordered via their site.</p> <p>Regards, Cleber</p> <p>OR 10 action 1: PT to contact EUM (Cleber / Frédéric for addressing the issue.</p>
OR-9-Action-06	To propose to Steering Group a Visiting Scientist Activity (VSA) to compare OSI SAF Sea Ice concentration products (OSI-401) with the products from other organizations (e.g. NSIDC), bearing in mind that there has been an activity to compare different SIC products/algorithms by a person in NERSC (information obtained after the review). Therefore, the first part of the action would be for the PT to check the existing activities in this field.	PT		Open	Closed by ref. to SG04	closed

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-9-Action-07	To clarify the policy / approach for products that are not anymore active (operational) but kept available to users (and used by users) such as Quikscat data or MAP products and discuss it with Steering Group. The policy should clarify how this service shall be identified in the SeSp, and what associated documentation should be made available.	EUMETSAT Secretariat		Open	Closed by ref. to SG04	closed
OR-9-Action-08	Project Team to check if the PRD and SeSp properly specify over which temporal averaging the requirements are defined (monthly or daily). Update SeSp and PRD table if appropriate.	PM		Open	Closed by ref. to SG04	closed
OR-9-Action-09	To remove also in the SeSp and in the PRD the TBC. Define values where there is a TBD.	PM		Open	Closed by ref. to SG04	closed
OR-9-Action-10	Project Team and EUMETSAT to identify indicators enabling to demonstrate that the JOP/OICD is properly implemented (e.g exchange of mails between EUMETSAT and the relevant SubSystem).	PT/EUM		Open	?	PT and EUM participants agree that there is no useful indicator. - closed
OR-9-Action-11	To recall in the § 5.1 SST (Ops Report) quality the two definitions (The quality index 1 2 3 4 5 or Proximity confidence value (PCV)) and assess the possibility make the palette value larger and implement if easy.	MF		Open	Done	closed
OR-9-Action-12	To add a legend for the dotted, dashed and solid line on "Complementary validation statistics ..." in the Ops Report.	MF		Open	Done for METEOSAT SST, not for GOES-E, NPP NAR, Metop NAR, Metop GLB	added in the template 10-2 closed
OR-9-Action-13	In the future, to add in the OPS report a section requiring EU inputs, and remind EUM to provide these inputs : users from EUMETCast and users and retrievals from UMARF.	PM		Open	Done -> action can be closed	closed
OR-9-Action-14	To limit the list of article to those of the past year in the OPS report and to list articles and papers in the web site, by chronological orders (more recent first).	PM		Open	Done	closed

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-9-Action-15	To put explanation of what SYNOP means in the Ops Report.	MET Norway		Open	No longer uses SYNOP in Ops Report -> action can be closed.	closed
OR-9-Action-16	To try to find the reason for the drop on statistics of OSI SAF central website.	PT		Open	No specific reason was found -> action can be closed	closed
OR-9-Action-17	To report on the progress of the inclusion of new validation station for fluxes products.	MET Norway		To be checked	Added in HYR 2014-1st Half -> Action can be closed	closed
OR-9-Action-18	To update the 1/2 year report with the correct reference.	MET Norway		To be checked	Updated in HYR 2014-1st Half -> Action can be closed	closed
OR-9-Action-19	To remove graph fig 1 , 2 , 3 and 4 in the future, but highlight figures in the table when out of spec.	PM		Open	Done -> action can be closed	closed
OR-9-Action-20	To present the new service messages at next OR.	METNo/DMI		To be checked at OR10	Plans being discussed internally at MET Norway	on going. MET Norway indicated that the service message organisation is being modified. The announcement on incident will be coming from the service desk. It should be in place early 2015 . See presentation in annex 5 a
OR-9-Action-21	To present the status of the data availability at next OR.	METNo/DMI		To be checked at OR10	ok : presentation by S. Eastwood	closed see presentation in annex 5 b

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OR-9-Action-22	To add a definition on Greenland area in the Ops Report or the link to the web site where the definition will be found.	DMI		Open	A link to the dmi.dk ice chart website has been added to the Ops report -> Action can be closed	closed
OR-9-Action-23	To add more text regarding the meaning of these 2 figures 60 and 64 in the Ops Report.	DMI		Open	Text updated -> Action can be closed	closed
OR-9-Action-24	To add more text regarding the meaning of these 2 figures 59 and 63 in the Ops Report.	DMI		Open	Text updated -> Action can be closed	closed
OR-9-Action-25	To add a comment/conclusion indicating if requirement are met or not, for all products (SS1, SS2 and SS3) in the Ops Report.	PT		To be checked	Done	closed
OR-9-Action-26	To set up a VSA to compare OSI SAF ice concentration products with the products from other organizations (e.g. NSIDC).	MET Norway		To be checked	Proposal for AS/Vs for Ice GMPE currently being drafted together with David Poulter	open
OR-9-Action-27	To present the ECMWF statistics in the report on a monthly basis rather than on a daily basis for all winds products as it is done for the buoys validation.	KNMI		Open	Done since HYR 2013-1. Action can be closed.	closed
OR-9-Action-28	To try to obtain from PO.DAAC an explanation for this number of users for download, and the comparison with number of users of other wind products.	KNMI		To be checked	AV - 18 Sep 2014: I asked this several times by email to David Moroni from PO.DAAC but never got an answer. I have the impression that they are not very willing to share these numbers with third parties. Propose to close the action.	po daac report on the usage of the EUMETSAT product, but it seems they do not want to share the usage of non EUM product. Closed

Reference	Description	Responsibility	26/03/2014 Status	23/04/2013 Board decision/ Status at OR9	01/10/2014 Status	28/10/2014 Board decision/ Status at OR10
OR-9-Action-29	To add a statement in the Ops report that PO.DAAC users are using the products mainly for climate studies.	KNMI		To be checked	Done since HYR 2013-1. Action can be closed.	closed
OR-9-Action-30	To add a short paragraph in the validation report with information related to the Bayesian ice screening. (to be done for each wind validation report).	KNMI		To be checked	Is done. New versions of documents are available on KNMI and OSI SAF web sites. Action can be closed.	closed

Annex 3: Operation Review 10 actions

Reference	Description	Responsibility	Due date for checking
OR-10-Action-1	Origine: OR-9-Action-05: Sea Ice Concentration data set (product OSI-409): MET Norway to contact EUMETSAT to verify the proper recognition of this reprocessed dataset in the Product Navigator. PT to contact EUMETSAT to ensure that the link to the met Norway web site is identified in the Product navigator to enable user to access it, and to ensure that the dataset is then also available in UMARF	MET Norway	Next OR
OR-10-Action-2	(OBJ_AOC_02_MF) provide further explanations on regional bias in next HYR (improve the legend related to figures such as fig 45)	PT	Next OR
OR-10-Action-3	OBJ_DF_03_MF ; Obj1_ackermann_12_KNMI, OBJ1_LC_02_MET.no; OBJ_LSc_29_PM - provide updated SeSp an PRD to SG for endorsement, and check what is in the SeSp and update if necessary, by removing product which are not in operations)	PT	Next OR
OR-10-Action-4	OBJ_DF_08_MF - PT to investigate why the NOAA-19 NAR SST validation in JUNE 2013 positive bias is different of other months. Nota: if this is a one off, do not spend too much time on it.	PT	Next OR
OR-10-Action-5	Obj1_ackermann_09_MET.no - Independent document/report listing the available stations to be provided for next OR	MET Norway	Next OR
OR-10-Action-6	Obj1_ackermann_11_MET.no - The comments to the validation results for the ice concentration product should have been referencing to figure 54 (NH) and figure 58 (Southern Hemisphere). since the comment is erroneous, update the Ops Report and provide it to SG		Next OR
OR-10-Action-7	OBJ2_LC_03_PM - Add in the central web site menu a line regarding training, which could identify the material which has been made, a link to other framework where such training information is available, etc.: report on progress of work at next OR.		Next OR
OR-10-Action-8	OBJ2_LC_04_PM - To be re-assessed at next OR the FTP sites statistics homogeneity		Next OR
OR-10-Action-9	OBJ_LSc_01_PM - add the data record on the first page , for the time being. (an other solution should be found when there will be several data records). Discontinued products associated with the phase should be also identified. See also rid <filename>:=OBJ_LSc_07_PM		Next OR
OR-10-Action-10	OBJ_LSc_05_PM - PT to assess what could be feasible to ensure that the last 6 months (for example) service messages are visible on the web site. To implement a solution if feasible within present resources availability. Nota: PT can also propose / implement other solution.		Next OR

Reference	Description	Responsibility	Due date for checking
OR-10-Action-11	OBJ_LSc_08_PM - PT can have a consistent approach for PUM, ATBD and Validation report for products availability in the web site. (due date: next OR) For other documents (such as VS report) it is left to the PT consideration whether the document should be available or not on the web site (there could be report that the SAF PM may not agree to see available to external people)		Next OR
OR-10-Action-12	OBJ_LSc_09_PM - the issue concerned discontinued product, for example, where the associated documentation should also be made available. To draw user attention on the issue, in the web page documents section, add a sentence indicating that former versions of the documentation is available.		Next OR
OR-10-Action-13	OBJ_LSc_10_PM - ensure that there is only one link to one repository for the web site access to documents (consistency between web sites). (due date: next OR)		Next OR
OR-10-Action-14	OBJ_LSc_11_PM – PT to try to get PO DAAC to implement: <ul style="list-style-type: none"> Harmonisation of the presentation and naming of all OSI SAF products in PO.DAAC would be appreciated, 		Next OR
OR-10-Action-15	OBJ_LSc_13_MF - add some text / clarification on the next HYR if there is a problem on the map		Next OR
OR-10-Action-16	OBJ_LSc_16_MET.no - (HR14-1): Section 5.2.1.2: In the "Comments" the PT announced further validation results documented in a separate report, addressing the non-compliance with the service specification in some months and for the Hopen station report to be provided at next Operation Review, and include a link in the OPS report (it will be also announce via the messages / news system): due date: next OR		Next OR
OR-10-Action-17	OBJ_LSc_19_MET.no - clarify in the ops report what is meant with this “yearly averaged Standard deviation” in table in ops report section 5.3.1.		Next OR
OR-10-Action-18	OBJ_LSc_20_MET.no - update the OPS report template to add a clear statement on the results and the applicable SeSp requirement		Next OR
OR-10-Action-19	OBJ_LSc_22_MET.no - SH product type only contains the class "Ambiguous find out if there are any users (workshop, other). Clarify the approach for this Sea Ice type over Antarctic.		Next OR
OR-10-Action-20	OBJ_LSc_23_MET.no - in table table 25 , for next ops report, update the table with respect to relation with SeSp-		Next OR
OR-10-Action-21	OBJ_LSc_25_MET.no - Product 405 is not monitored and PT does not provide the quality for the last period. PT indicates that they are reconstructing the all set up. Monitoring should be re-started early 2015. To be reviewed at next OR (a priori only a 6 month monitoring would be provided).		Next OR
OR-10-Action-22	Obj1_ackermann_04_MF - b) Assess the possibility of adding a map indicating the number of buoys available in each box		Next OR
OR-10-Action-23	Obj1_ackermann_07_MF - add a few sentences on why classical seasonal effects have an impact on the quality assessment.		Next OR

Reference	Description	Responsibility	Due date for checking
OR-10-Action-24	Action OR-8-Action-22 has been replaced by this action: status of wind dataset in Naiad to be clarified by PT (the product temporal coverage should be clearly in line with the SeSp). The Report should only identify the users / usage of these data. See also action 4 OR 7		Next OR

Annex 4 RIDs and answers for OR 10 – 2014

<filename>:=OBJ_AOC_01_MF

Reviewer: Anne O'Carroll

Brief title of comment: comparison between OSISAF buoy black-list and UK Met Office one

Comment: The ftp site containing the OSI-SAF buoy black-list information also contains buoy quality information from the UK Met Office. Can you comment if and how the two black-lists are compared and verified?

Document: osisaf_hyrxx_hx_v_x_x.pdf

Name and Institute Respondent from SAF: MF

Response:
There is no comparison or cross check of these black-lists in routine.
A specific study has been made in 2011: CMS and UKMO buoy black-lists comparison over 3 months See file sst_blacklist_cms_ukmo.odt and more recent version -2013- of Anne Marsouin (presentation form).
However, we strengthen every three/six months the CMS black-list over the previous three/six months by adding erroneous buoys jointly detected

- in outside black-lists (mainly with UKMO black-list)

- and by the satellite SST data (Metop, npp, meteosat, goes, noaa19).

Review Board Decision: closed by answer

<filename>:=OBJ_AOC_02_MF

Reviewer: Anne O'Carroll

Brief title of comment: large biases against buoys in some locations

Comment: In figures 3 to 5 of the half yearly reports e.g. 1st half 2013, it would be useful to have some further explanation or details on the large biases against buoys in some locations, for example including information on the standard deviation and number contributing to each grid box. Also please confirm if these are satellite - buoy differences (as it is not stated).

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h1_v_1_0.pdf

Page: 20 to 22

Name and Institute Respondent from SAF: MF

Response:

The maps show monthly mean Satellite night-time SST error with respect to buoys measurements for quality level 3,4,5.

There is at least 5 measurements in each box.

Specifics maps of standard deviation and number contributing to each grid box are not available but, in the section "complementary validation statistics", you can find graphs with bias, standard deviation errors (sst sat - in situ sst) and number of cases as a fonction of several parameters.

"SST error" represents SST satellite minus SST in situ (for 3,4,5 quality indexes and by night) with the mean of error in black line, standard deviation in dot line, and numbers of cases in point line.

Further explanations on regional bias will be added in next HYR.

Review Board Decision:

OR-10-Action-2: provide further explanations on regional bias in next HYR (improve the legend related to figures such as fig 45)

<filename>:=OBJ_AOC_03_PM

Reviewer: Anne O'Carroll

Brief title of comment: OSISAF User Workshop

Comment: Web-page: Regarding the OSI-SAF user workshop at the end of November, please comment if suitable attendance is expected, given the concurrent ESA CCI user workshop and ECMWF ERA-Clim2 workshops.
Please advise on further advertisements including those within the wind, sea-ice and SST communities.

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

Around 28 participants are currently (28 oct 2014) registered for the workshop.

Following advertising mean are planned :

- EUMETSAT web site <http://www.eumetsat.int/website/home/News/ConferencesandEvents/index.html>, twitter (on-line)
- PODAAC (asked)
- NSIDC
- GHRSSST (on-line : <https://www.ghrsst.org/notice-board/calendar/q/date/2014/>, <https://www.ghrsst.org/>)
- MyOcean (asked)
- CNRM (French Meteorological Research Centre) (asked)
- Ifremer/Cersat (asked)
- MF/CMS web site www.meteo-spatiale.fr (on-line)

- news message on the OSISAF central webpage (done)

- e-mail to unregistered potential users (list in attachment) (done)

Review Board Decision: point taken - closed

OSI SAF OR10 (10th Operations Review)

<filename>:=OBJ_AOC_04_MET.no

Reviewer: Anne O'Carroll

Brief title of comment: still a reference to ENVISAT

Comment: Web-page: Section 5.3.1 of half year-reports still refer to ENVISAT.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyrxx_hx_v_x_x.pdf

Reference and Issue Number:

Page:

Section: Section 5.3.1

Name and Institute Respondent from SAF:
Steinar Eastwood, MET.no

Response:
The introduction text on sea ice validation in the HYR template has not been updated for several years, since we use the same methods as for long.
The template has now been updated.

Review Board Decision: closed by answer

OSI SAF OR10 (10th Operations Review)

<filename>:=OBJ_DF_01_MF

Reviewer: Dominique Faucher

Brief title of comment: lack of Metop B data

Comment: I am surely beginning to forget things, but regarding news 923, When are you going to use METOP B data?

OSI SAF Service Message #923
o Title :
interruption of Metop SST production
o Product :
NAR, GLB, MGR Metop SST
o Date : 2014-03-17
o From : M-F/CMS Operations team
o Message :
Due to an outage of MetopA AVHRR instrument from 1156 to 1335 (sensing time), the following products are impacted : MGR SST missing, NAR SST dated 201403161000 may be incomplete, GLB SST dated 201403161200 will be incomplete

Name and Institute Respondent from SAF: MF Philippe Labrot, Cécile Hernandez

Response:
Use of Metop-B data pending on new OSISAF LEO processing chain delivery.
A Product Consolidation Review METOP B/AVHRR is planned in November.

Review Board Decision:
SS1 Metop A is still using the “old” chain. The PCR for the new processing chain will be held soon, but in case of Metop A problems, the PT would be ready to process and provide to users the Metop B product via an old Metop B chain. (nb: only for OSI-201, 202 and 204)
SS2: already using Metop B
SS3: development on going

Closed by answer

<filename>:=OBJ_DF_02_MF

Reviewer: Dominique Faucher

Brief title of comment: wrong model input

OSI SAF Service News #87 and report second semester 2013 section 3.1
In August 2013, some OSISAF DLI products (both MSG and GOES) have been impacted by wrong models the 24 and 25th ...
Q: what do you mean “wrong model” ?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h2_v_1_0.pdf

Reference and Issue Number:

Page: 13

Name and Institute Respondent from SAF: MF Philippe Labrot

Response:

The problem was due to data models (surface_pressure, temperature_2m, relative_humidity_2m and integrated_water_vapour) which haven't been flagged as with poor quality or missing in real time.
For more details of the input data see the associated PUM.

In order to prevent any future use for studies for example, OSISAF team has decided to remove the corrupted data from the archive both at EDC (in GRIB) and IFREMER (in NetCDF) side.

Review Board Decision: closed by answer

<filename>:=OBJ_DF_03_MF

Reviewer: Dominique Faucher

Brief title of comment: product 204 also disseminated via EUMETCast?

Confirm:

See my mail from 6 May 2014:

According to the SeSp, the product is only available via Naiad and FTP:

According to the EUM web (Product Navigator) and the JOP OICD, the product is available via EUMETCast (see below the copy paste) of the Product navigator.

Q: am I correct), and if yes, correct it at the next opportunity.

Name and Institute Respondent from SAF: MF Philippe Labrot

Response:

OSI-204 MGR SST product is also disseminated on EUMETCast.

Correction in SeSP to be made.

Review Board Decision:

OR-10-Action-3: SeSp to be provided in draft for SG endorsement

<filename>:=OBJ_DF_04_MET.no

Reviewer: Dominique Faucher

Brief title of comment: 3 days for an internal hard disk problem!
(see also report 1st Semester 2014 section 3.2)

OSI SAF Service Message #941

o Title degraded OSI SAF sea ice products

o Product :Sea Ice

o Date :2014-05-12

o From : MET Norway Local Manager

o Message :The OSI SAF sea ice products from the last three days are degraded due to an internal disk problem at MET Norway. Some sectors in the ice products are missing data. The problem has now been resolved and the production is back to nominal.

Q: Why did it take so long? Was it a detection problem of the issue, or falling during a week end?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr14_h1.pdf

Reference and Issue Number:

Page: 12

Section:

Name and Institute Respondent from SAF:
Steinar Eastwood, MET.no

Response:
There was a bug in EUMETCast reception at MET Norway, implemented on the Thursday before, which caused internal disks to go full during the weekend and hence could not save all SSMIS files arriving over EUMETCast.
This could not be fixed before the person responsible for the system arrived on Monday.

Review Board Decision: closed by discussion

<filename>:=OBJ_DF_05_MF

Reviewer: Dominique Faucher

Brief title of comment: OSI SAF Service Message #861

Comment :
o Title: missing products
o Product :SST and Fluxes
o Date :2013-09-16
o From : M-F/CMS Operations team
o Message due to software environment problem all products are unavailable since 20130915 at 1800UTC.

Q: I cannot find this errors identified in the second semester report section 3.1 or 4.1. .
Did I miss it? Clarify

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h2_v_1_0.pdf

Reference and Issue Number:

Page: 13-15

Name and Institute Respondent from SAF: MF Philippe Labrot

Response:
The monthly targets were met, so there's no needs to fill the 3.1 and 4.1.
However, in case of a major or specific outage, even with no impact on the monthly results, a report is made in the relevant section.
But this issue was not concerned.

Review Board Decision: OK, the lack of product was minor. It is agreed that in this case it did not require reporting in HYR- closed

<filename>:=OBJ_DF_06_MF_KNMI

Reviewer: Dominique Faucher

Brief title of comment: identification of dissemination of products via PO-DAAC

Comment: I cannot find the reference to PO-DAAC in the SeSp service spec as an official mean to provide the products to users (wind and SST).
Should it not be formalised?

Recommendation (if any):

Suggested importance (major, minor)

Name and Institute Respondent from SAF: MF and KNMI

KNMI response: Good point in KNMI opinion. Two points:

1. We should indeed formalise this. KNMI has an agreement with PODAAC on the dissemination. It results in the provision of quarterly reports on download statistics to KNMI, which are included in the OSI SAF operations reporting. For each product and for all products together the unique number of users, the number of downloaded files and the data amount downloaded is reported.

2. NASA DAACs are implementing Digital Object Identifiers for the NRT archive data at the PODAAC. This has been communicated and discussed with the SAF Network Manager at EUMETSAT. A discussion on archiving Climate Data Records at the PODAAC is ongoing at EUMETSAT and PODAAC level.

MF :

As PO-DAAC is not in the SeSp, this not an official mean to provide the products to users.

The fact that statistics are provided in the reports is not also a sufficient reason, even if some agreement for providing these informations are existing.

This can have been put in order to answer to a request of a user during a previous OR.

May be DF can check this ?

Review Board Decision:

1) The agreement should be with OSI SAF and not with KNMI.

2) **Redistributed product with any other archive (such as PO-DAAC) should be clarified by SG, Inform SG on the way forward, as well as how to specify it in SeSp / PRD**

3) **The issue of DOI now requested by PO-DAAC is also new.**

No further action on PT.

<filename>:=OBJ_DF_07_MF

Reviewer: Dominique Faucher

Brief title of comment: wrong model input

Comment: According to the message 851 and the Operation Report second semester 2013 section 3.1: "In August 2013, some OSISAF DLI products (both MSG and GOES) have been impacted by wrong models the 24 and 25th..."

Q: What is a wrong model, and how did this happen?

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h2_v_1_0.pdf

Page: 13

Section:

Name and Institute Respondent from SAF: MF Philippe Labrot

Response: Same RID as OBJ_DF_02_MF

Review Board Decision: cancelled (twice the same issue)

<filename>:=OBJ_DF_08_MF

Reviewer: Dominique Faucher

Brief title of comment: 2 graphs for NOAA 19 SST quality do not match

Comment: The two graphs for NOAA 19 SST quality do not match.

This is very visible for June 2013: did something happen in June 2013?

Report 1st semester 2013 fig 27

vs

Report 2nd semester 2013 fig 27

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h1_v_1_0.pdf & osisaf_hyr13_h2_v_1_0.pdf

Name and Institute Respondent from SAF: MF Cécile Hernandez

Response:

The problem is in HYR13-H1 only : both Bias and Standard deviation figures show Standard deviation.
Corrected in HYR13-H1 version 1.2

For substantial positive bias in June 2013, the information might be erroneous as the map "Location of buoys for NOAA-19 NAR SST validation in JUNE 2013, for 3, 4, 5 quality indexes and by night" is erroneous.

A quality assessment processing bug has been corrected recently.

Quality assessment for May and June need to be replayed.

Review Board Decision:

OR-10-Action-4: PT to investigate why the NOAA-19 NAR SST validation in JUNE 2013 positive bias is different of other months. Nota: if this is a one off, do not spend too much time on it.

<filename>:=OBJ_DF_09_MF

Reviewer: Dominique Faucher

Brief title of comment: Failure in product ingestion first semester 2013

Comment: Why is the first semester so bad for product ingestion?
Where the missed products provided later on, i.e. is the UMARF repository complete?
Example of May 2013 (table 49)

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h1_v_1_0.pdf

Page: 110

Name and Institute Respondent from SAF: MF

Response:

GOES-13 production failed from 2013/05/22 to 2013/06/06.

There was no input data to make the GOES SST, DLI and SSI products, they are consequently not in EDC.

Service message on the 2013-05-22 :

Due to an outage of the satellite, GOES data have been unavailable since 2013/05/22 at 0330UTC.

Service message on the 2013-05-24 :

Due to an anomaly which occurred approx. 0340TU on GOES-13 2013/05/22, GOES-East data are unavailable.

GOES SST, DLI and SSI are impacted.

Service message on the 2013-06-07 :

Goes 13 production resumed on 2013/06/06 at 1600UTC. Impacted products :

GOES-E DLI, GOES-E SSI and GOES-E SST.

Review Board Decision: closed by answer

<filename>:=OBJ_DF_10_MF_KNMI

Reviewer: Dominique Faucher

Brief title of comment: User requests -> EUMeTrain ?

Comment: regarding the user requests 140021 and 140020 whether on-line course would be organised, would you think of it in the frame of EUMeTrain (may be for CDOP 3)?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: MF and KNMI

KNMI response: Our training activities are in close cooperation with the EUMETSAT training people (Mark Higgins et al.). We have participated already in several (on-line) EUMeTrain activities like the EUMeTrain Ocean and Sea Week, October/November 2011; see http://www.knmi.nl/scatterometer/training_material/.

Review Board Decision: closed by discussion

<filename>:=OBJ_DF_11_MF

Reviewer: Dominique Faucher

Brief title of comment: Delay to process the request 140002

Comment: 2 months to process a request which should be obvious.
To be avoided in the future
(request 140002: asked 30/01/2014, answered 01/04/2014).

Copy of request:

Request ID	140002
Category	Other questions - Other questions
Request Status	Closed - The request is closed
Request from	Branimir Rushkov
Date of the request (dd/mm/yyyy)	30/01/2014
Request	Do you know of any accessible source for SSI data for Australia and Eastern Asia? Thank you in advance. Regards, Branimir Rushkov
Acknowledged by	Pierre Le Borgne
Date (dd/mm/yyyy)	04/02/2014
Acknowledgment	Message received on 2014/01/30 and transfered to the specialist.
Answered by	Thibaut Laffineur
Date (dd/mm/yyyy)	01/04/2014
Answer	Dear Branimir, Unfortunetaly, we don't have such products over Australia and Eastern Asia ; we don't know sources for SSI data over these regions. Please try to search possible sources on the web, maybe the Japan services could have this kind of products. Sorry for the delay. Best regards, Thibaut.

However, a random look shows that answer are done very quickly.

Recommendation (if any):

Suggested importance (major, minor)

Name and Institute Respondent from SAF: MF Philippe Labrot

Response:

No answer to give.

This RID seems to be just a personal comment.

Note that the Help desk specifications are given in the SESP 4.6

The request was received on 30-01-14 and transfered to the expert in the same time so the OSI-SS-WUS-800/801/802 were met.
If longer investigation or significant action is necessary, the acknowledgement has to be made within 3 working days by, or on behalf of the relevant expert. This was made by the expert on 4-2-14 after 3 working days so the OSI-SS-WUS-803 was met.

Could you please give the reference of the specifications for the answer after acknowledgement ?

Review Board Decision: closed by discussion

<filename>:=OBJ_DF_12_MF

Reviewer: Dominique Faucher

Brief title of comment: request 140014 for METOP B SST

Comment: your answer was: "SST product from AVHRR on Metop-B satellite is in a testing phase.
It will be available before the end of this year" I am not aware of any reviews nor any input in the Master Schedule.
Did I miss something?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: MF Philippe Labrot, Cécile Hernandez

Response:

See OBJ_DF_01_MF

Review Board Decision: closed by ref

<filename>:=OBJ_DF_13_MF

Reviewer: Dominique Faucher

Brief title of comment: users survey: How many did participate?

Comment: users survey: How many did participate?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

20 users have answered to the survey.

Review Board Decision: closed by answer. SG will be informed in its status report

Obj1_ackermann_02_KNMI

Reviewer: Ackermann

Brief title of comment: OSCAT Winds Availability

Comment: Data availability of OSCAT winds in Feb. 2014 is given as 93.7%.
However, if the instrument failed on 20 Feb., I would expect a considerably lower value (75% maximum).

Recommendation (if any): Correct, if necessary

Suggested importance (major, minor)minor

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Page: 9

Section: 2.1, Table 2, 2.2, Table 3

Name and Institute Respondent from SAF: KNMI

KNMI Response: The PRD states: "Operational OSI SAF products shall be available for distribution within the specified time on a monthly basis in more than 95% of the cases where input satellite data are available with the nominal level of quality (on monthly basis). Nominal quality data are defined as input data that successfully pass all input data tests in the OSI SAF processing."
After the 20th of February, we have not received OSCAT data of nominal quality so this period was not considered when computing the availability.

Review Board Decision: closed by discussion

OSI SAF OR10(10th Operations Review)
Obj1_ackermann_08_MET.no

Reviewer: Ackermann

Brief title of comment: AHL DLI Performance changes in 2013 and 2014

Comment: When comparing the AHL DLI results for May and June 2014 with the corresponding months in 2013, one notes a considerable improvement. Are there any specific reasons for this? If so, it would be good to mention it.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1, 2013 HYR-1

Reference and Issue Number:

Page: 56

Section: 5.2.1.2

Name and Institute Respondent from SAF: Øystein Godøy, METNO

Response: This is related to the types of clouds experienced in the time period validated. I.e. it is related to the performance of the NWC SAF PPS algorithm in the specific situation. That being said, the validation of AHL DLI is mainly being done in Arctic conditions and the performance of PPS on Arctic clouds are thus of major importance. Extension of the validation network is under implementation.

Review Board Decision:
closed by answer

Obj1_ackermann_09_MET.no

Reviewer: Ackermann

Brief title of comment: Status of Pyranometer stations Vagones, Holt, and Kvithamar for SSI validation

Comment: If the stations are not used, they can be removed from the table (caption indicates: Validation stations that are currently used ...)

Suggested importance (major, minor)minor

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Page: 59

Section: 5.2.2.2

Name and Institute Respondent from SAF: Øystein Godøy, METNO

Response: This will be done. A dedicated document describing the available stations is under development. In this the reason for including or excluding stations will be provided.

Review Board Decision:

OR-10-Action-5 - Independent document/report listing the available stations to be provided for next OR

Obj1_ackermann_10_MET.no

Reviewer: Ackermann

Brief title of comment: AHL SSI validation, comments on the results

Comment: It is mentioned that the present algorithm does not perform well for snow-covered conditions. Is it planned to update the algorithm, so that for spring time conditions, the requirements could perhaps be met as well.

Recommendation (if any):

Suggested importance (major, minor)major

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Page: 61

Section: 5.2.2.2

Name and Institute Respondent from SAF: Øystein Godøy, METNO

Response: Work in order to improve the performance over ice and snow covered surfaces is ongoing. The current algorithm works well over Open Ocean, but fails in the Arctic due to sea ice. This weakness complicates validation as most validation stations are located on land and at High latitudes land is usually covered by snow during winter.

Review Board Decision:

Product is presently fulfilling its SeSp requirement.

The product algorithm will be improved for twilight condition and snow and ice cover. Due date: PCR Review for AHL SSI (OSI-301c) planned in Q-2015.

No further action, just report at next OR the status of this PCR

Obj1_ackermann_11_MET.no

Reviewer: Ackermann

Brief title of comment: GBL SIC Validation

Comment:

Recommendation (if any): It is stated that the yearly averaged standard deviation is a bit above the requirement (does not meet). This could be due to the fact that the reference values (MET Norway Ice Charts) are only collected along ice edges. Is it planned to change the validation strategy adapt it to the validation needs?

Suggested importance (major, minor) major

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Page:67

Section: 5.3.1

Name and Institute Respondent from SAF:
Steinar Eastwood, MET Norway

Response:

The comments to the validation results for the ice concentration product should have been referencing to figure 54 (NH) and figure 58 (Southern Hemisphere). These figures were not available at the time the comment was written, and the comment should have been updated when the figures were added. In figure 54 and 58 we can see that the line for "Total" shows that the requirement is fulfilled in the period.

Review Board Decision:

OR-10-Action-6 -since the comment is erroneous, update the Ops Report and provide it to SG.

Obj1_ackermann_12_KNMI

Reviewer: Ackermann

Brief title of comment: Calculation of the target accuracy for the quality of the global wind products

Comment: [AD-1] SESP uses as target accuracy for the winds products RMS and Bias. In the validation, standard deviation (STDEV) is used instead of RMS. This is too optimistic, as $RMS^2 = BIAS^2 + STDEV^2$, so RMS is usually greater than STDEV.

Whereas this does not significantly affect the comparison against ECMWF data (very small bias), it has an impact on the validation results with buoy winds.

Recommendation (if any): Please perform the validation against the SESP criteria

Suggested importance (major, minor)major

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Page:76, 77

Section: 5.4.1, 5.4.2

Name and Institute Respondent from SAF: KNMI

KNMI response: You are right that there is an inconsistency between the PRD/SESP and what is actually reported. However, the differences between RMS and Stdev are very small in practice. Suppose we have a bias of 0.5 m/s and a Stdev of 2 m/s (the limit values according to PRD/SESP), then the RMS would be only $\sqrt{0.5^2 + 2^2} = 2.06$ m/s.

So the difference between RMS and Stdev is only 6%.

If something would need to be changed, it would probably be better to change the requirements in the PRD/SESP. Bias and Stdev are independent entities whereas bias and RMS are related according to the formula above.

Review Board Decision:

Conclusion in OPS report should use the same metrics as in the SeSp.

OR-10-Action-3: PT to provide an updated draft SeSp and PRD for approval by SG , using std dev instead of RMS, but leaving the values unchanged.

OSI SAF OR10 (10th Operations Review)

<filename>:=OBJ1_LC_01_PM

Reviewer: Laurence Crosnier

Brief title of comment: product identifier in title headers

Comment: It would be useful to have the corresponding name of the product (i.e. the product identifier, for example 'OSI-409') in all the title headers in the description of each product quality for SST, radiative flux, wind and sea ice, along with the product acronym already given (for example, "METEOSAT SST"). It would hence be easier (for me who is not familiar with the product acronym) to match the Product (from the product requirement and service specification tables) and where its quality is being assessed using the Table of content.

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response: See answer in OBJ_LSc_28_PM

Review Board Decision: it has been implemented in the template for next ops report - closed

<filename>:=OBJ1_LC_02_MET.no

Reviewer: Laurence Crosnier

Brief title of comment: No news of improvements for OSI-409 and 450

Comment: It is mentioned in the product requirement and service specification documents that OSI-SAF is collaborating with ESA-CCI Project (Dec 2011 until Dec 2014) about Sea Ice products OSI-409 and OSI-450. I was not able to find any description of what has been improved in terms of quality for OSI-409 and 450 in the 3 Half-yearly reports for 2013 and first half of 2014. It would be useful to include a description of what has been done in this context and what has been improved.

Suggested importance (major, minor)

Name and Institute Respondent from SAF:
Steinar Eastwood, MET.no

Response:

The outcome of the collaboration with ESA-CCI will influence the OSI-450 when it is released in 2016. The improvements to the algorithms, processing chain, and dataset quality will then be documented through the standard set of OSISAF reviews and documents (among others the Algorithm Theoretical Basis Document and Validation Report).

OSI-409 is a static data set that will not change in algorithm, processing or quality. It will be superseded by OSI-450.

Review Board Decision:

OR-10-Action-3 check what is in the SeSp and update if necessary, by removing product which are not in operations)

<filename>:=OBJ1_LC_05_MF

Reviewer: Laurence Crosnier

Brief title of comment: feedback about black-listed buoys ?

Comment: For SST, a list of the black-listed buoys is provided.
Does your insitu data provider give you any feedback about: Why in situ data is biased? How the buoy will evolve in the future?
Is there any black-list for insitu data used in the validation of wind, radiative flux?

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: MF

Response:

For SST and Fluxes :

We have no contact with in situ data provider because we retrieve our data directly by GTS.
so we don't have further information about erroneous data detected by CMS black-list We have no black-list for validation of radiative flux.

KNMI response: For winds, we get monthly blacklists from ECMWF. They routinely check the buoy data against ECMWF model data and apply plausibility checks.

Review Board Decision: MF answer is clarified: MF provides feed back to the Drifting Buys Cooperation Panel (DBCP).
Closed by discussion

<filename>:=OBJ1_LC_06_KNMI

Reviewer: Laurence Crosnier

Brief title of comment: impact of the loss of the oceansat2 satellite

Comment: For the wind, each satellite product (Metop A, B, Oceansat2) is compared independently to buoys for validations (paragraph 5.4.2).

The loss of Oceansat2/Oscat-50km in February 2014 does not impact the quality of the remaining Metop products.

For user who where using the oceansat2 product only and had to switch to Metop, or those who are merging all the various sensors in order to build further merged products, It would nevertheless be useful to further quantify the impact of the loss of the oceansat2 satellite:
what can they expect from MetopA-B that they did not have from Oceansat2 in terms of physical structure resolution, in terms of bias..?

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: KNMI

KNMI response: Indeed the wind products are independent in the sense that they are single sensor products and their quality is not affected by the addition or loss of other products. You are also right that effects will appear in the application domain.
We know from NWP model data assimilation experiments that scatterometer wind data have substantial impact on the forecast skill. The impact of adding or removing a single instrument from the suite of assimilated observations is largest when this instrument has an overpass time which is different from the overpass times of other, comparable instruments.

In this sense, the loss of OSCAT was significant, since it had a descending overpass time of 12h local time versus 9.30h local overpass time for Metop-A and Metop-B.

For a more precise evaluation of the impact of OSI SAF OSCAT winds in addition to Metop on diverse applications, please see the NWP SAF / OSI SAF report on OSCAT:

Stoffelen, A., A. Verhoef, J. Verspeek, J. Vogelzang, T. Driesenaar, Y. Risheng, C. Payan, G. De Chiara, J. Cotton, A. Bentamy, M. Portabella and G.J. Marseille, Research and Development in Europe on Global Application of the OceanSat-2 Scatterometer Winds NWP SAF report number: NWPSAF-KN-TR-022, OSI SAF report number: SAF/OSI/CDOP2/KNMI/TEC/RP/196, KNMI, 2013

Review Board Decision: closed by discussion

<filename>:=OBJ1_LC_07_PM

Reviewer: Laurence Crosnier

Brief title of comment: Typo in HR13-H1,

Comment:

page14, paragraphe 3.1 “temporary” instead of “temporally”; “<was” (“<” to be removed) page14, paragraphe 3.2 “processing chain has BEEN fixed” (BEEN is missing); “were partly uploaded” (“ED” missing)

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h1_v_1_0.pdf

Reference and Issue Number:

Page: 14

Section:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response: The mistakes were corrected in osisaf_hyr13_h1_v_1_1.pdf

Review Board Decision: closed

<filename>:=OBJ1_LC_08_MET.no

Reviewer: Laurence Crosnier

Brief title of comment: problem with EUMETCAST at MET Norway on June 2013

Comment: in HR13-H1, page 15: problem with EUMETCAST at MET Norway on June 2013.

It is said that "a new way of distributing the products was implemented".

Could you please detail?

Was Eumetcast dropped and replaced by another solution?

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h1_v_1_0.pdf

Name and Institute Respondent from SAF: Steinar Eastwood, MET.no

Response:

We experienced a general problem when connecting to the EUMETSAT FTP server. This problem was bypassed by changing the way the FTP connection was set up and sending of files was done in the distribution scripts No change regarding EUMETCast was done.

Review Board Decision: closed by explanation: the system to provide files to EUM was changed.

<filename>:=OBJ1_LC_09_PM

Reviewer: Laurence Crosnier

Brief title of comment: change of the OSISAF web site server

Comment: in HR13-H1, page 16: "the change of the OSISAF web site server...".
Which change is that about?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h1_v_1_0.pdf

Reference and Issue Number:

Page: 16

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response: A migration operation of the web site osi-saf.org on a new IT hardware (Debian 6 web server) was planned by the host OXYD in agreement with Météo-France IT team.
The migration was planned on the 2th April 2013 and was expected to last 2 hours at least.
The users were warned by a service message n°805 on the 29/03/2014 : planned interruption for week 14
THE CHANGE OF OSISAF WEB SITE SERVER is planned on 2013-04-02 from 0800UTC.
A short interruption of service is to be expected.

Review Board Decision: closed by answer

<filename>:=OBJ1_LC_10_MET.no

Reviewer: Laurence Crosnier

Brief title of comment: change in the stations used for flux validation

Comment: in HR13-H1, page 62: "It is expected that the stations used for validation will change for the next report due to an assessment of the quality of each station that is being prepared now"

I checked in HR13-H2, and I did not see any description of the change of the stations used for validation. Could you please explain why?

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: osisaf_hyr13_h1_v_1_0.pdf

Page: 62

Name and Institute Respondent from SAF: Øystein Godøy, METNO

Response:
This was due to a major unannounced reorganisation of the data flow from Bioforsk stations at METNO. During the evaluation of the new data flow some changes on existing stations was found and that was the background for the comment. However, after review of the stations, the performance on stations previously used was not changed. Neither was conditions on stations not used improved enough for them to be included. Some more stations can be used, but these need topography compensation factors to be developed and that is currently not completed.

Review Board Decision: closed by discussion

<filename>:=OBJ2_LC_03_PM

Reviewer: Laurence Crosnier

Brief title of comment: specific menu dedicated to training on the website

Comment: About training, I would recommend to have a specific menu dedicated to training on your website, gathering all the available tutorials, where users would find all the useful information and material (tutorials, date for next training sessions...) that you are producing.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

Yes, it would be a good thing for users to have a clear menu and a section about trainings.
The OSISAF website needs to be updated and reshaped: I keep this advice to include it in the functional specifications.

Review Board Decision:

OR-10-Action-7: Add in the central web site menu a line regarding training, which could identify the material which has been made, a link to other framework where such training information is available, etc.: report on progress of work at next OR.

<filename>:=OBJ2_LC_04_PM

Reviewer: Laurence Crosnier

Brief title of comment: Statistics on FTP sites are inhomogeneous

Comment: About service to users, it is hard to get a global picture of the service evolution, as statistics for FTP provided for various sites (SS1 ifremer, SS1 PODAAC, SS2 site, SS3 site) do not contain exactly the same information per site; hence no direct intercomparison neither merge of the statistics is possible in order to get an overview of how the various site evolve in terms of number of users and product download.

I would recommend having for each half year report, a very simple table, summarizing the information from each site:

- Product identifier (e.g. OSI-409) /number of users of this product during the 6mths period for each site (e.g. SS1)/ total volume downloaded for each site (e.g. SS1) per product during 6 mths.

I would expect that after a couple years, a global picture of the service evolution would appear and that evolution of user behavior would be easier to follow and analyze.

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

The half yearly report template has been updated (hyr_template_10_1) to take this advice into account.
See section 6.2 Statistics on the FTP sites use.

The tables are homogeneous: months in columns, products (with identifiers) in lines, number of products downloaded on each server (OSISAF FTP server and PO.DAAC server if available).

The number of downloaded products is more relevant than the volume in MBytes (Strong disparity in the file sizes).

We cannot have the information about the number of users for all sub-systems.

If available, we will add the top-10 countries who download data from FTP servers.

Review Board Decision: see also rid **OR-8-Action-34**.

OR-10-Action-8: To be re-assessed at next OR the FTP sites statistics homogeneity

<filename>:=OBJ_LSc_01_PM

Reviewer: Lothar Schüller

Comment: OSI SAF Web page: The home page on the right only features the NRT products of OSI SAF. Why not the data records, e.g. the Sea Ice Concentration?

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

The released data records will be added on the OSI SAF Web site home page.

Review Board Decision:

OR-10-Action-9: add the data record on the first page, for the time being. (an other solution should be found when there will be several data records). Discontinued products associated with the phase should be also identified. See also rid <filename>:=OBJ_LSc_07_PM

<filename>:=OBJ_LSc_02_PM

Reviewer: Lothar Schüller

Brief title of comment: outdated information on OSISAF Web site

Comment: OSI SAF Web page: "Overview of the programme": some errors to be corrected: e.g. SMHI as consortium member, "Constinuous" instead of "Continuous", CDOP as current phase, GMES instead of Copernicus... All in all: pretty outdated, as the last update was in June 2011.

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

The web page "Overview of the programme" was updated.

Review Board Decision: closed

<filename>:=OBJ_LSc_03_PM

Reviewer: Lothar Schüller

Brief title of comment: outdated information on OSISAF Web site (2)

Comment: OSI SAF Web page: General presentation of products: Updates needed for satellite input (e.g. Oceansat) ... as well as for Accessibility (e.g. PO.DAAC missing)

Suggested importance (major, minor)

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:
Sentence about Oceansat removed.
I wait for the PO.DAAC discussion to update the section "Accessibility".

Review Board Decision: closed by discussion. Issue on PO-DAAC discussed further-

<filename>:=OBJ_LSc_04_PM

Reviewer: Lothar Schüller

Brief title of comment: PUM and VR for OSI-409 missing

Comment: OSI SAF Web page: Presentation of Products: Sea Ice: Why is there no link to the PUM and VR for OSI-409?

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:
PUM and VR added on "Presentation of Products: Sea Ice" web page.

Review Board Decision: done - closed

<filename>:=OBJ_LSc_05_PM

Reviewer: Lothar Schüller

Brief title of comment: announcement on PODAAC but not on OSISAF web site

Comment: Why are important announcement (e.g. Metop -B outage on 7. October) being announced through PODAAC and not through the OSI SAF web page?

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:
The announcement about Metop -B outage on 7. October is on OSISAF web site too (it was announce by a service message on the 07/10/2014) but service messages are not highlighted on osi-saf.org : they are hidden behind the login step and very difficult to find on the website.

OSISAF Service message to be published on the home page of the web site without login needed (Action PM)

Review Board Decision:
OR-10-Action-10: PT to assess what could be feasible to ensure that the last 6 months (for example) service messages are visible on the web site. To implement a solution if feasible within present resources availability. Nota: PT can also propose / implement other solution.

<filename>:=OBJ_LSc_06_PM

Reviewer: Lothar Schüller

Brief title of comment: information about products under development

Comment: OSI SAF Web page: Is there an information for the users, which committed products are under development?

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

The committed products are described in the PRD which is available on the "General presentation of the Products" page of the web site :
<http://www.osi-saf.org/visiteurs/produits/produits.php>
Nevertheless some news about products under development would be a nice way to advertise on our products on the web site (Action PM).

Review Board Decision: closed by discussion

<filename>:=OBJ_LSc_07_PM

Reviewer: Lothar Schüller

Brief title of comment: outdated information about discontinued products

Comment: OSI SAF Web page: What is the logic to have the OCEANSAT products in the list with "discontinued" status but not the discontinued QuikSCAT products?

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

It is not logic.

I propose to add one section about discontinued products -with no status- on the home page.

We will have these 3 sections :

- 1) "Current near real time production at a glance"
- 2) "Discontinued products (archive available)"
- 3) "Reprocessing dataset"

Review Board Decision: closed by ref to rid <filename>:=OBJ_LSc_01_PM

<filename>:=OBJ_LSc_08_PM

Reviewer: Lothar Schüller

Brief title of comment: Links to PUM, ATBDs and VR could be improved

Comment: OSI SAF Web page: The access to the user manuals, ATBDs and VR could be improved. E.g. There is no link to these documents (and not even mentioned) on the "overview" pages.

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

The link called "Documentation" on the home page point the documentation page where PUM are listed. If user is connected, he can access to ATBD, VR.

ATBD and VR could be added on the 4 "Presentation of the Products" pages (wind, SST, fluxes, sea ice).

I wonder if there is release restrictions about technical and scientific documents.

What are the rules to drive a document public or restricted to users?

Review Board Decision:

OR-10-Action-11: PT can have a consistent approach for PUM, ATBD and Validation report for products availability in the web site. (due date: next OR)

For other documents (such as VS report) it is left to the PT consideration whether the document should be available or not on the web site (there could be report that the SAF PM may not agree to see available to external people)

<filename>:=OBJ_LSc_09_PM

Reviewer: Lothar Schüller

Brief title of comment: Previous versions of documents not accessible

Comment: OSI SAF Web pages: The "document" section gives access to the latest versions of the PUM/ATBD etc.... However, there is apparently no access to the user documentation of previous versions, which I would consider as important to provide.

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response: The previous versions of document are on the web server (old links to previous versions are still working) but they are indeed not visible on the web site.
To be added in the functional specifications for a new web site.

Review Board Decision:

OR-10-Action-12 - the issue concerned discontinued product, for example, where the associated documentation should also be made available. To draw user attention on the issue, in the web page documents section, add a sentence indicating that former versions of the documentation is available.

<filename>:=OBJ_LSc_10_PM

Reviewer: Lothar Schüller

Brief title of comment: risk for inconsistent documentation on web site

Comment: Just as an example: The PUM for OSI-409 is available at two different addresses:
http://osisaf.met.no/docs/pum_seaicereproc_ss2_v1p3.pdf and http://www.osi-saf.org/biblio/docs/ss2_pum_reproc_sea_ice_1_3.pdf.

Likewise, these documents are identical (good!). However, it seems to be a risk that OSI SAF provides inconsistent documentation.

Wouldn't it better to consider linking?

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

To be added in the functional specifications for a new web site.

Review Board Decision:

OR-10-Action-13 - ensure that there is only one link to one repository for the web site access to documents (consistency between web sites). (due date: next OR)

<filename>:=OBJ_LSc_11_PM

Reviewer: Lothar Schüller

Brief title of comment: PO.DAAC and OSISAF

Comment: PO.DAAC: I understand this page is widely used by the community, because of its excellent quality. PO.DAAC features OSI SAF products: most of the Wind Products, some SST products but no sea ice products.

Knowing that PO.DAAC is a NASA page and formally not subject to this OSI SAF review, I would however have the following related questions and comments:

- [1] What is the overall strategy of the OSI SAF team wrt PO.DAAC?
- [2] Does OSI SAF consider having all products distributed over PO.DAAC, i.e. including sea ice, radiation and full SST?
- [3] Harmonisation of the presentation and naming of all OSI SAF products in PO.DAAC would be appreciated, e.g. wrt to product naming, meta data ("Data Provider" description) and product grouping.
- [4] Inclusion of links to the OSI SAF (not yet there).
- [5] Announcement of the OSI SAF user workshop via PO.DAAC

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

[1] The PO.DAAC is a good mean to promote and host some OSISAF products.

It can be considered as official provider in the sense that the data distribution was agreed by the OSISAF steering group but it is not an operational provider with commitments.

PO.DAAC retrieves data on OSISAF server as a "normal" user.

[2] OSISAF does not have the control of which products are hosted by the PO.DAAC.

PO.DAAC is mainly for ocean data, NSIDC is more or less the equivalent for sea ice products. So it does not make sense to ask PO.DAAC to host sea ice.

[3] You are right: presentation and meta data of OSISAF products are not homogenous.
What do you mean by product grouping?

[4] Do you mean adding links to OSISAF in the documentation tab ?

[5] We are going to contact PO.DAAC to ask them to announce the OSISAF workshop.

Review Board Decision:

[1] & [2] [5] closed by answer. It is noted that OSISAF does not have the control of which products are hosted by the PO.DAAC and as such some product can be missing (MSG SST), Sea Ice, etc.)

[3] & [4]: **OR-10-Action-14** - PT to try to get PO DAAC to implement it.

Inform SG

<filename>:=OBJ_LSc_11bis_PM

Reviewer: Lothar Schüller

Brief title of comment: Version of SESP in HYR

Comment: Operations Report: The Service Specification Document is mentioned in the document, however not with a version number and proper reference. This should be added in the future in order to make clear which version is applicable for the reporting and quality assessment, as the SeSp document is under evolution.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response: SESP version number added in OSISAF HYR template version 10.0

Review Board Decision: closed – done in template

<filename>:=OBJ_LSc_12_MF_KNMI_MET.no_DMI

Reviewer: Lothar Schüller

Brief title of comment: Reference to PRD instead of SESP

Comment: Operations Report (HR14-1): Section 5.1: The text refers to the requirements of the PRD (threshold or target or optimal?), however the assessment should be done against the requirements in the SeSp. As they could be in principle different, it would be important to provide the correct reference. (applies as well to the relevant section of the other products, in particular the winds section, where there is a reference to the "User Requirements Document" which is obsolete by now for several years).

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Name and Institute Respondent from SAF: MF, KNMI, MET.no, DMI

MF Response (Philippe Labrot) :
This reference to the PRD is mentionned in 5.1 since a lot of time and years ... without any remarks during many previous OR.
So, do we have to correct all the previous reports ?

KNMI Response :

MET.no Response :

DMI Response :

Review Board Decision: In the future report, the OPS report should reports the compliance against the SeSp only. This has been updated in the template – CLOSED

<filename>:=OBJ_LSc_13_MF

Reviewer: Lothar Schüller

Brief title of comment: "Complementary validation"

Comment: Operations Report (HR14-1): Section 5.1.1 "Complementary validation" comes with little (actually no) explaining text. Thus, it is difficult to assess what is actually shown (what is "SST error"? Bias or Stddev?) nor how the results relate to the Service Specifications. (applies as well to the other SST sections).

Document: hyr14_h1_1_0.pdf

Page: 23

Name and Institute Respondent from SAF: MF

Response:
In "Complementary validation" section we can find graphs of SST error as function of several parameters (sst in situ, longitude, latitude).
"SST error" represents SST satellite minus SST in situ (for 3,4,5 quality indexes and by night) with the mean of error in black line, standard deviation in dot line, and numbers of cases in point line.
Service Specifications defines thresholds of SST Statistics only on global area and not as function of others parameters (monthly bias less than 0.5° C, monthly difference standard deviation less than 1° C for the geostationary products , and 0.8°C for the polar ones).
So, graphs found in "Complementary validation" have only to be considered as supplementary information allowing a better understanding of the SST algorithm behaviour.

Review Board Decision: add some text / clarification on the next HYR if there is a problem on the map

<filename>:=OBJ_LSc_14_MET.no

Reviewer: Lothar Schüller

Brief title of comment: AHL SST out of specifications/requirements

Comment: Operations Report (HR14-1): Section 5.1.5: The AHL SST is out of specifications/requirements quite a few times. As the text discusses principle limitations as reasons (night time, cloud mask) wouldn't it be useful to discuss an adaptation of the Service Specifications? Are the higher biases still complying with the PRD threshold requirement?

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Reference and Issue Number:

Page: 51

Name and Institute Respondent from SAF:
Steinar Eastwood, MET.no

Response:

We have not had time to priority upgrading the AHL SST product yet, but are working on an improved cloud and ice mask to be implemented.

We would like to see the effect of this work before adapting the SESP.

The AHL SST product is within the THRESHOLD accuracy requirement of 1.0C in bias and 1.5C in stddev in the SESP.

Review Board Decision: closed by discussion

<filename>:=OBJ_LSc_15_MF

Reviewer: Lothar Schüller

Brief title of comment: Results combine for DLI but not for SST

Comment: Operations Report (HR14-1): Section 5.2.1.1: Why are the results of METEOSAT and GOES-E combined for DLI but not for SST?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Reference and Issue Number:

Page: 53

Section:

Name and Institute Respondent from SAF: MF Philippe Labrot

Response:

The METEOSAT and GOES-E DLI results are combined because separate results would show geographical differences associated to the pyrgeometer stations rather than differences between the satellite products. This being due to the limited number of stations.

The METEOSAT and GOES-E SST products are obtained by different algorithms using different radiometer channels. A separate validation is needed and the many buoy measurements permit to do so.

This validation scheme has been applied by OSI SAF for years.

Review Board Decision: closed by answer

<filename>:=OBJ_LSc_16_MET.no

Reviewer: Lothar Schüller

Brief title of comment: AHL DLI quality : separate report ?

Comment: Operations Report (HR14-1): Section 5.2.1.2: In the "Comments" the PT announced further validation results documented in a separate report, addressing the non-compliance with the service specification in some months and for the Hopen station: Will this report be made available for the review?

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Page: 55

Section:

Name and Institute Respondent from SAF:
Øystein Godøy, METNO

Response:

The text is a bit unclear. In the comment two actions are identified. The first is that the products failed to meet the criteria at Hopen in January, February and June and that details are investigated. The other is that a preliminary validation against observations extracted from WMO GTS bulletins have been performed. For this second action it is indicated that further evaluation of stations is required prior to inclusion of these stations in the regular validation. The main issue to identify are shadow effects at stations. The evaluation report for WMO GTS observations is yet not finished. Concerning the performance issue at Hopen this was caused by the cloud classification (NWCSAF PPS). Why this failed is not further evaluated, but Hopen is a difficult station to do cloud classification at and validation of radiative fluxes are strongly affected by local conditions.

Review Board Decision:

OR-10-Action-16: report to be provided at next Operation Review, and include a link in the OPS report (it will be also announce via the messages / news system): due date: next OR

OSI SAF OR10 (10th Operations Review)

<filename>:=OBJ_LSc_17_MET.no

Reviewer: Lothar Schüller

Brief title of comment: AHL SSI quality comments

Comment: Operations Report (HR14-1): Section 5.2.1.2: the "Comments" section states "The requirement was met in all months", which is however not true for July and August 2013 for the Bias requirement.

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Reference and Issue Number:

Page: 55

Name and Institute Respondent from SAF:
Øystein Godøy, METNO

Response:

This due to a misunderstanding on how to do the reporting. The errors in 2013 were described in the applicable 2013 report. As far as the revised table structure was understood, the previous 6 months was included to give the review board a better view on development. The comment refers to the last 6 months of the 12 months represented by the table. If the full table is to be commented each time I am happy to do so, otherwise the text should clearly indicate that comments only apply to the last 6 months of the 12 month period. I am happy to receive guidance on the preferred method.

Review Board Decision: closed by explanation

<filename>:=OBJ_LSc_18_MET.no

Reviewer: Lothar Schüller

Brief title of comment: AHL SSI quality

Comment: Operations Report (HR14-1): Section 5.2.2.2: AHL SSI quality is out of specification for the northern most stations. Is this a principle limitation or is this due to a temporary problem. If this is a principle problem, it should be addressed in the user documentation (PUM) and it should be considered if the SeSp needs to be adapted in order not to commit for something that the OSI SAF cannot commit.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Page: 58

Name and Institute Respondent from SAF:
Øystein Godøy, MET

Response:

The current algorithm has a problem when the ground is covered by snow or sea ice and that is the reason for poor performance at the northernmost stations during winter time. Work is ongoing to correct this weakness in order to move into the Arctic. However, ocean is not snow covered and the sea ice product is used to indicate ice covered surfaces (in the quality index). The problem is that except for Ekofisk, no validation data is available over ocean.

Review Board Decision: Yes, it is a principle limitation in the validation of the product at the moment. This should be improved with the updated product (snow issue). Closed by discussion

<filename>:=OBJ_LSc_19_MET.no

Reviewer: Lothar Schüller

Brief title of comment: meaning of yearly averaged Standard deviation

Comment: Operations Report (HR14-1): Section 5.3.1: Sea Ice Concentration. Comments: What does "yearly averaged Standard deviation" means? Is this the average of the 12 monthly standard deviations? or is it the standard deviation when comparing all measurements over the year? Please clarify.

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Reference and Issue Number:

Page: 66

Name and Institute Respondent from SAF:
Steinar Eastwood, MET.no

Response:
It means the average of the 12 monthly standard deviations.

Review Board Decision: clarify in the ops report what is meant with this "yearly averaged Standard deviation" in table in ops report section 5.3.1.

<filename>:=OBJ_LSc_20_MET.no

Reviewer: Lothar Schüller

Brief title of comment: section 5.3.1 Sea Ice Concentration NH/SH

Comment: Operations Report (HR14-1): Section 5.3.1: Do I correctly assume that the essential information on the compliance of SIC accuracy with the service specification (10% Stddev yearly) is given in Figure 54 for the Northern Hemisphere and Figure 58 for the Southern Hemisphere. The red curve should be (on average) below the 10% line. Is this correct?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Page: 63

Name and Institute Respondent from SAF:
Matilde Jensen, DMI

Response:
Yes and no. Figure 54 and 58 provides the essential information on the compliance of SIC accuracy. The figures shows the std.dev. for "Total" (std.dev. of Osisaf SIC vs Ice Analysis Conc. (IAC) for all valid points in the IAC), for "Ice" (std.dev. for OSIC-IAC for all points where IAC shows ice) and for "Water" (std.dev. of OSIC-IAC for all points where IAC shows water). It is the Total std.dev. that is subject to the service specification of 10% yearly std.dev. for NH and and 15% for the SH, i.e. it is the black curve that should be (on average) below the 10% and 15% line, respectively.

Review Board Decision: update the OPS report template to add a clear statement on the results and the applicable SeSp requirement

<filename>:=OBJ_LSc_21_MET.no

Reviewer: Lothar Schüller

Brief title of comment: section 5.3.1 Sea Ice Concentration NH/SH (2)

Comment: Operations Report (HR14-1): Section 5.3.1: Sea Ice Concentration. If my assumption in the previous RID was right, the SIC is out of specification. Is this a principle limitation or is this due to a temporary problem. If this is a principle problem, it should be addressed in the user documentation (PUM) and it should be considered if the SeSp needs to be adapted in order not to commit for something that the OSI SAF cannot commit.

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

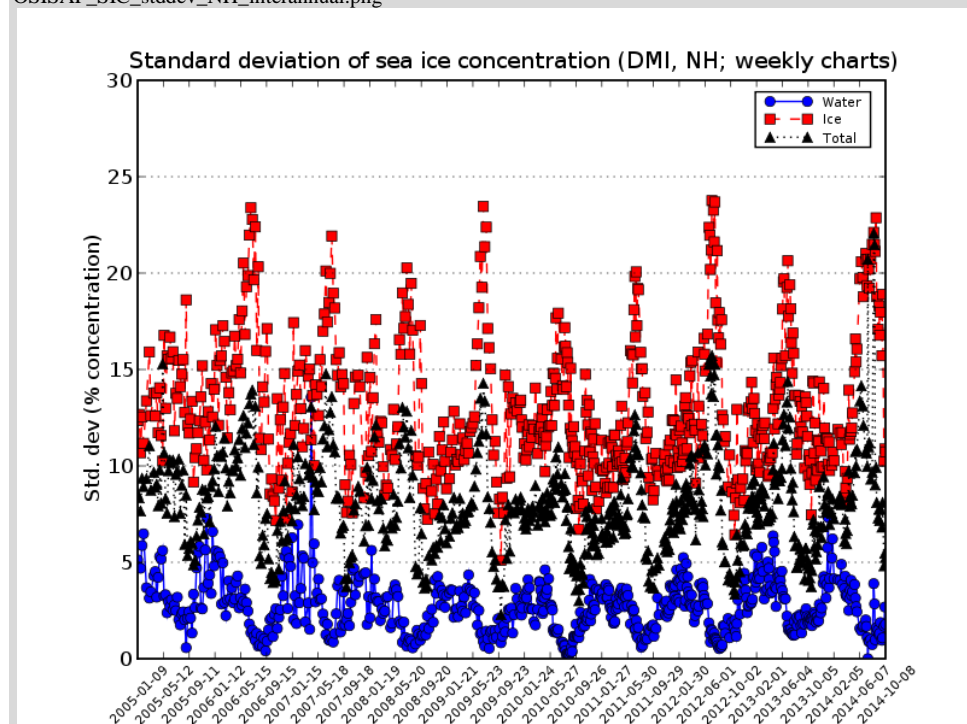
Page: 63

Name and Institute Respondent from SAF:
Matilde Jensen, DMI

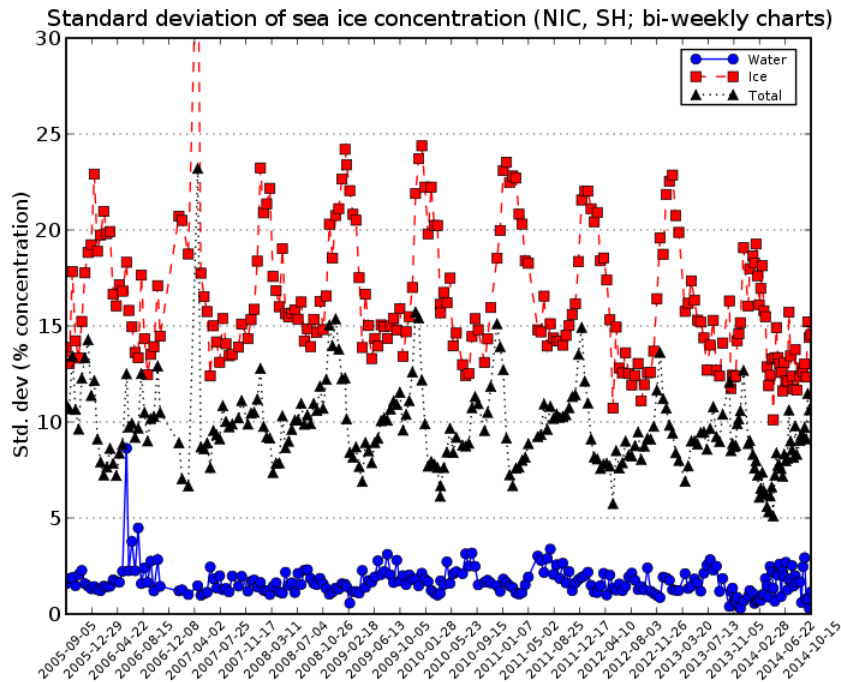
Response:

The assumption in RID 20 was not correct and the SIC is not out of specification, since the "Total" std.dev. for both the NH and the SH products is below 10% and 15%, respectively, on the annual basis.

(See attached figures on the std.dev. inter-annually:
OSISAF_SIC_stddev_NH_interannual.png



OSISAF_SIC_stddev_SH_interannual.png



Review Board Decision: closed by answer

<filename>:=OBJ_LSc_22_MET.no

Reviewer: Lothar Schüller

Brief title of comment: Section 5.3.3: Sea Ice Type in SH

Comment: Operations Report (HR14-1): Section 5.3.3: Sea Ice Type.
The comment discusses the validation in the NH. What about the SH?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Page: 71

Name and Institute Respondent from SAF:
Steinar Eastwood and Signe Aaboe, MET.no

Response:

The SH product only contains the class "Ambiguous", as the method we use only works for Arctic ice, and the Antarctic sea ice is more or less only first year ice.
We will include a fixed comment about this in the HYR reports from now on.

Review Board Decision:

OR-10-Action-19 - find out if there are any users (workshop, other,). Clarify the approach for this Sea Ice type over Antarctic.

<filename>:=OBJ_LSc_23_MET.no

Reviewer: Lothar Schüller

Brief title of comment: Low Resolution Sea Ice Drift Quality

Comment: Operations Report (HR14-1): Section 5.3.4: Low Resolution Sea Ice Drift. The Service Specification for the product is "5km yearly std deviation after 48 displacement". The presented results of the product quality assessment however are not in relation to this requirement. Therefore, it is impossible (at least for me) to find evidence for the statement "The monthly validation statistics [...] meet the requirement.

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Page: 73

Name and Institute Respondent from SAF:
Thomas Lavergne, MET.no

Response:

Indeed. The requirements are specified on the basis of a yearly statistics (standard deviation) while the HYR displays monthly standard deviations. At the time of writing the requirements, there were not enough validation data (drifting buoys) for promising more than yearly statistics. For the last 4-5 years, however, we have accessed a reasonable amount of buoy data, which allows us to do a better job and report monthly statistics to our users.

There is a general understanding that by choosing a shorter validation period we will worsen the validation statistics. Thus, if we meet the requirements for each monthly period, we meet them for the yearly period. This is the reason why we claim the requirements are met although we do not strictly report yearly statistics.

Review Board Decision:

OR-10-Action-20 - in table table 25 , for next ops report, update the table with respect to relation with SeSp-

OSI SAF OR10 (10th Operations Review)

<filename>:=OBJ_LSc_24_MET.no

Reviewer: Lothar Schüller

Brief title of comment: Sea Ice Emissivity quality is missing

Comment: Operations Report (HR14-1): The product quality assessment for the Sea Ice Emissivity product (OSI-404) is missing in the report. How does the product performs?

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Name and Institute Respondent from SAF:
Rasmus Tonboe, DMI

Response:

The sea ice near 50 GHz emissivity product for atmospheric temperature sounding applications is one of a kind. There are no other similar products available and fiducial measurements are nonexistent. A large effort is now spent on alternative products for comparison and for monitoring the stability of the product. We are also trying to engage users in the evaluation (OSI SAF user workshop) to relay their experience using the product. The initial validation of the product is described in the validation report.

Review Board Decision: this product was pre-operational since early 2014. Monitoring should have been provided. Monitoring could be provided once validation of product 404 is finalized. Closed by discussion

<filename>:=OBJ_LSc_25_MET.no

Reviewer: Lothar Schüller

Brief title of comment: Sea Ice Drift quality is missing

Comment: Operations Report (HR14-1): The product quality assessment for the NH Medium Resolution Sea Ice Drift product (OSI-405a) is missing in the report. How does the product perform?

Document: hyr14_h1_1_0.pdf

Name and Institute Respondent from SAF:
Gorm Dybkjaer, DMI

Response:

The implemented validation procedures has shown to produce few validation data, and we have not been able to assess the quality of the MR ice drift product as we would like to. We are currently reconstructing the operational setup to improve this.

This is done in parallel with the merging of the MR ice drift and the new Ice Surface Temperature implementation, and is therefore taking some time to finish. But we anticipate the new setup to be operating by the end of November.

Until then we hope the previous validation works are sufficient:

- * Validation and Monitoring of the OSI SAF Medium Resolution Sea Ice Drift Product.
<http://osisaf.met.no/docs/>

- * Byongjun Hwang. Inter-comparison of satellite sea ice motion with drifting buoy data. International Journal of Remote Sensing, 34, no 24, pp 8741-8763, <http://dx.doi.org/10.1080/01431161.2013.848309>, 2013.

Review Board Decision:

OR-10-Action-21 - Product 405 is not monitored and PT does not provide the quality for the last period. PT indicates that they are reconstructing the all set up. Monitoring should be re-started early 2015. To be reviewed at next OR (a priori only a 6 month monitoring would be provided).

<filename>:=OBJ_LSc_26_KNMI

Reviewer: Lothar Schüller

Brief title of comment: ECMWF forecast / Scatterometer winds

Comment: Operations Report (HR14-1): Section 5.4.1: Comparison with ECMWF forecasts: philosophical question: The fact that ECMWF forecast and Scatterometer winds are within 2m/s RMS, does this say something about the quality of the SCAT winds or the ECMWF forecast?

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Page: 76

Name and Institute Respondent from SAF: KNMI

KNMI response: Comparison to ECMWF in NRT and in the operations report is done for monitoring and validation. Since (forecast) ECMWF winds are available at any time and place where we measure winds with ASCAT, anomalies are easily detected against the ECMWF model, which has a rather uniform and constant performance (updated only twice a year).

The errors in both the ECMWF model and scatterometer winds are well known and routinely subject to spectral and spatial analyses, as well as error analysis in triple collocation.

So, indeed it is hard to draw conclusions from just the comparison of scatterometer winds and model winds, since they both contain errors.

Apart from this, there is the issue about representativeness. The scatterometer resolves wind features on smaller scales than the NWP model. From the model point of view, these features (although they are real) can be seen as noise and in this sense they can be considered as errors. This explains why we find larger RMS values in the HYR plots for scatterometer products with higher resolutions (smaller grid spacings).

From triple collocation experiments, where we bring together data from model, scatterometer and buoys, we can estimate the errors of the three observing systems separately. The errors in wind component are approximately 1.5 m/s for the ECMWF model and 0.7 m/s for the scatterometer, when looking at scales as resolved by ASCAT scatterometers. Much more on this can be found in Vogelzang, J., A. Stoffelen, A. Verhoef and J. Figa-Saldana, On the quality of high-resolution scatterometer winds, J. Geophys. Res., 2011, 116, C10033, doi:10.1029/2010JC006640

Review Board Decision: closed by discussion

<filename>:=OBJ_LSc_27_PM

Reviewer: Lothar Schüller

Comment: Operations Report (HR14-1): Editorials: For future versions of the HR reports, it would be helpful to streamline the terminology a bit (e.g. specification, requirements, good quality in the comments sections of each comparison). I would also recommend to use the term "quality assessment" instead of "validation" when addressing comparison against the SeSp.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response: Comments will be improved.
"validation" already replaced by "quality assessment" in OSISAF HYR template version 10.0.

Review Board Decision: closed by implementation of new template. Internal revision should be performed before the release of the doct

<filename>:=OBJ_LSc_28_PM

Reviewer: Lothar Schüller

Brief title of comment: Use the Product Identifiers

Comment: Operations Report (HR14-1): Editorials: Use the Product Identifiers to make clear reference to the product definitions, requirements and specifications.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: hyr14_h1_1_0.pdf

Reference and Issue Number:

Page:

Section:

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response: Product identifiers added in OSISAF HYR template version 10.0.

Review Board Decision: closed by ref to rid OBJ1_LC_01_PM

<filename>:=OBJ_LSc_29_PM

Reviewer: Lothar Schüller

Brief title of comment: Cleaning needed in SESP 2.2

Comment: SeSp 2.2: The ServiceSpecification Document contains products not yet released (Reprocessed winds) and other already discontinued (Oceansat and Seawinds). This should be cleaned up with the next draft presented to the Steering Group.

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: SeSp 2.2

Name and Institute Respondent from SAF: PM Cécile Hernandez

Response:

SESP 2.2 updated to SESP 2.3 draft b to be presented to next SG.

Revision table:

Correction of MGR SST (OSI-204) dissemination means: EUMETCast added.

Correction of OCEANSAT-II 50km Wind (OSI-105) and Seawinds Winds (OSI-101 & OSI-110) : Eumetcat removed from dissemination mean (only archive available as an irrecoverable instrument failure made the product discontinued).

Deletion of reprocessed winds not yet released.

Review Board Decision:

OR-10-Action-3 - provide SeSp draft to SG for endorsement

Obj1_ackermann_01_MF

Reviewer: Ackermann

Brief title of comment: No products or validation based on Metop-B AVHRR

Comment: Are there already any specific plans to add Metop-B AVHRR to use it for validation (Metop-B vs. MetopA/NOAA18/NOAA19) or product generation? I'm asking this also since the Metop AVHRR SST seems to be the most wanted one (see Tab.32 in 2014 HYR-1). In addition, Metop-A AVHRR has already exceeded its nominal lifetime.

Recommendation (if any):

Suggested importance (major, minor)major

If the comment relates to a specific review document, please give details below:

Document:

Reference and Issue Number:

Page:

Section:

Name and Institute Respondent from SAF: MF

Response:

Review Board Decision: closed see df RID

Obj1_ackermann_03_MF

Reviewer: Ackermann

Brief title of comment: Selection criteria of METEOSAT SST quality

Comment: In the statistics to assess the METEOSAT SST quality, three categories are considered: 5: excellent, 4: acceptable, 3: suspect.

How would the results change, if only categories 5 and 4 are considered ?

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Page: 15

Section: 5.1

Name and Institute Respondent from SAF: MF

Response: The statistics for each confidence level are systematic produced internally and some are displayed in the HYR.

Review Board Decision: closed by answer

Obj1_ackermann_04_MF

Reviewer: Ackermann

Brief title of comment: Caption of Figures 1 to 6

Comment:

a) Please indicate in the captions of Figures 1 to 6 the meaning of the different colours.

b) In addition, a Figure displaying the number

of buoys in each box would be nice as this would indicate, where most of the data used for the validation have their geographical origin.

Recommendation (if any):

Suggested importance (major, minor) minor

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Page: 16-21

Section: 5.1.1

Name and Institute Respondent from SAF: MF

Response:

Review Board Decision:

- a) the caption information done in the updated template – closed
- b) **OR-10-Action-22** - Assess the possibility of adding a map indicating the number of buoys available in each box
-

Obj1_ackermann_05_MF

Reviewer: Ackermann

Brief title of comment: Clarification on quality indicators used

Comment: To make the Half-Year Reports more self-consistent and comprehensive, it would be good to add the definition of the mask indicator. Moreover, please indicate the meaning of the three curves (bias, Std., number of cases) under each figure related to the validation statistics (not just under Fig. 9, p.24)

Recommendation (if any):

Suggested importance (major, minor) minor

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Reference and Issue Number:

Page:

Section: all sections with SST complementary statistics

Name and Institute Respondent from SAF: MF

Response:
mask indicator :

The meaning of the three curves (bias, Std., number of cases) will be added under each figure in the next HYRs.
OSISAF HYR template version 10.0 has been updated.

Review Board Decision: done in the template - closed

Obj1_ackermann_06_MF

Reviewer: Ackermann

Brief title of comment: Day/night differences in the AVHRR derived SST

Comment: It is mentioned that the slightly larger bias during night time is due to limitations in the AVHRR cloud retrieval. To proof that, one would just have to ignore the results of the VIS channels cloud test results for both the illuminated and the nighttime part of the orbit.
Has this ever been tried so far or is it envisaged to do this in the future?

Recommendation (if any):

Suggested importance (major, minor) minor

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Reference and Issue Number:

Page: 53

Section: 5.1.5 AHL SST Quality

Name and Institute Respondent from SAF: MF

Response:

Review Board Decision: the cloud mask used is MAIA, developed by CMS in the context of OSI SAF, therefore it is not possible to differentiate between the results of the albedo test and the brightness temperature test. – closed

Obj1_ackermann_07_MF

Reviewer: Ackermann

Brief title of comment: Discussion of the GEO DLI results

Comment: It is mentioned that classical seasonal effects have an impact on the quality assessment. It would be good to explain that in more detail.

Recommendation (if any):

Suggested importance (major, minor)

If the comment relates to a specific review document, please give details below:

Document: 2014 HYR-1

Reference and Issue Number:

Page: 54

Section: 5.2.1.1 DLI Quality

Name and Institute Respondent from SAF: MF

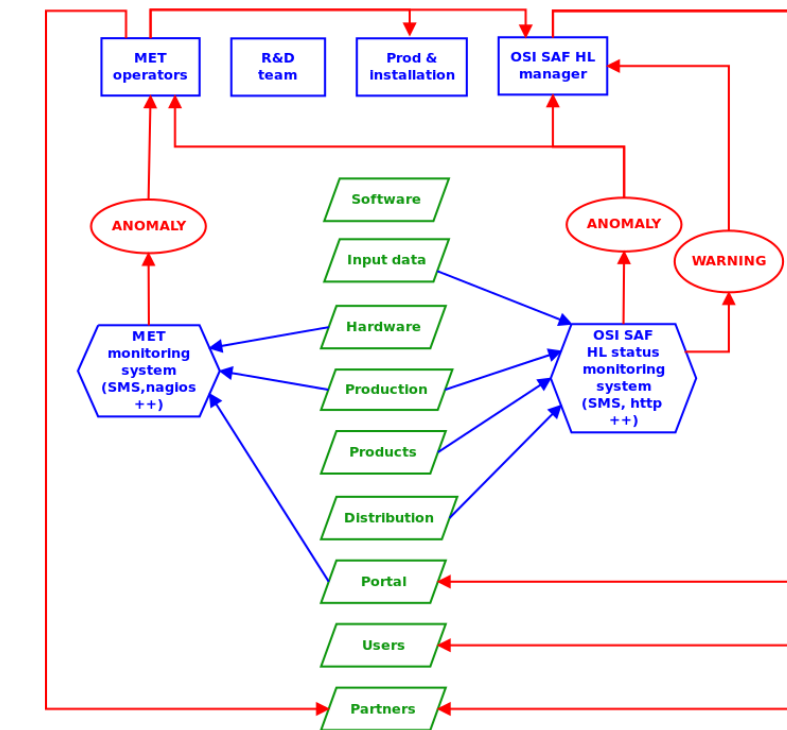
Response:

Review Board Decision:

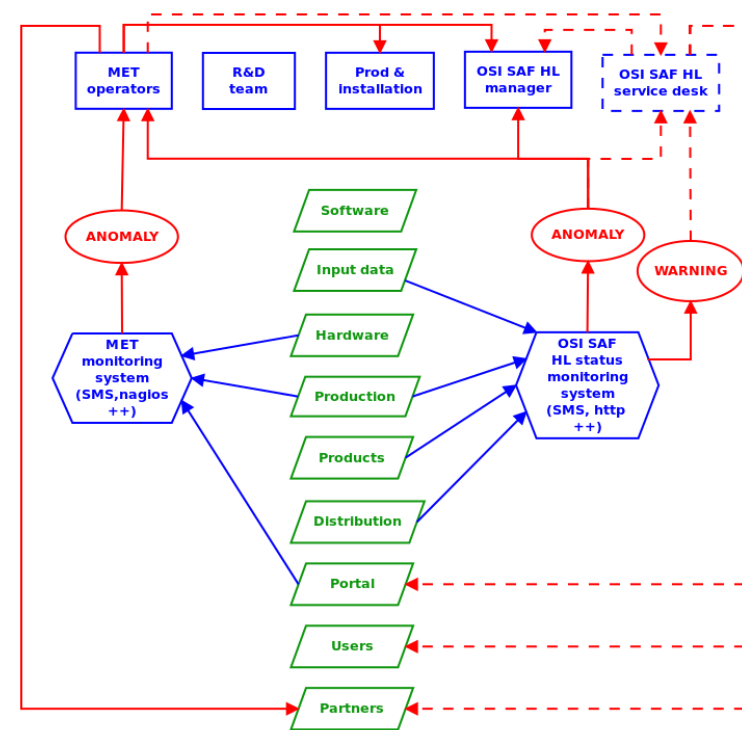
OR-10-Action-23 - add a few sentences on why classical seasonal effects have an impact on the quality assessment.

Annex 5: Project Team presentation

a. Processing anomaly and informing user at Met Norway (see RID)



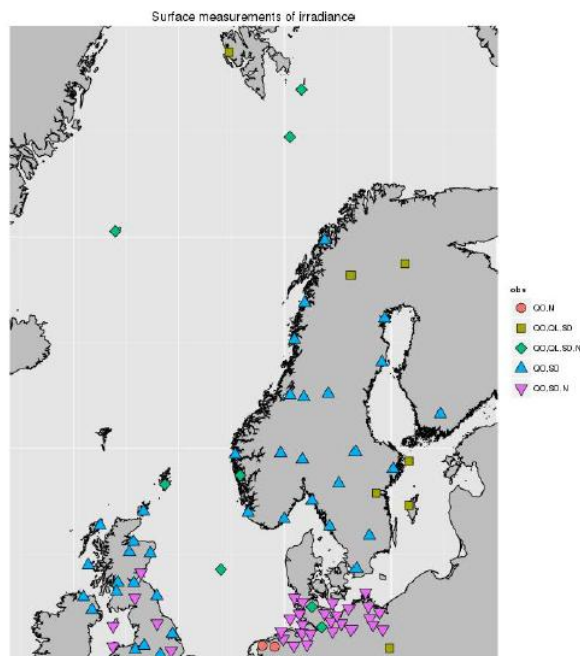
OSI SAF High Latitude Anomaly Handling, present



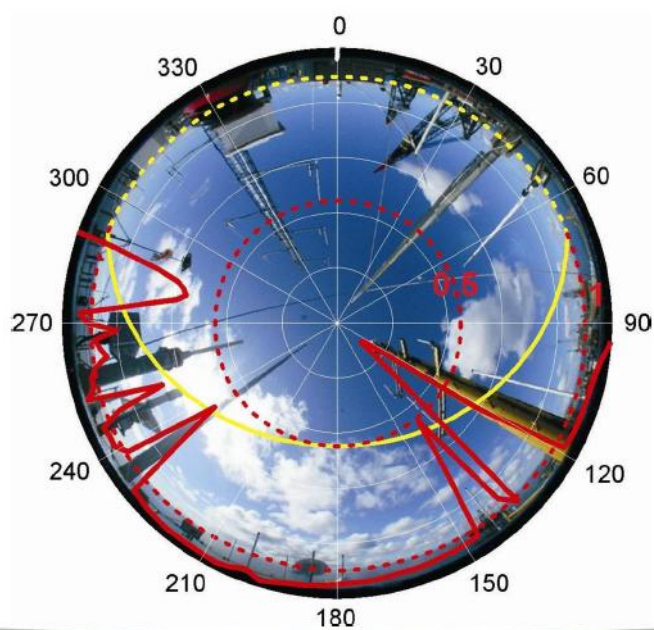
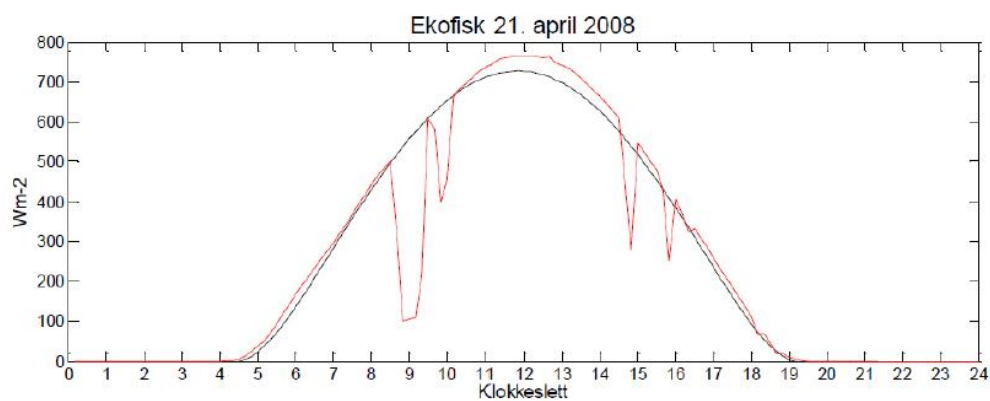
OSI SAF High Latitude Anomaly Handling, new

b. osisaf-ahl-flux-validation OR 10 action

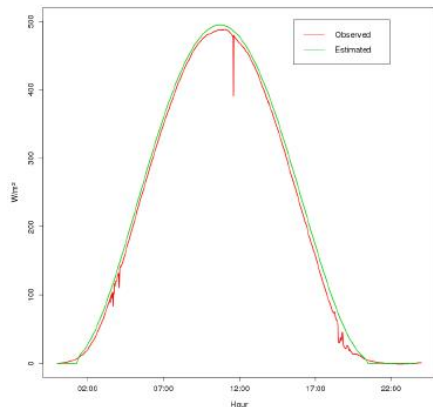
Validation stations under evaluation for OSISAF AHL radiative fluxes



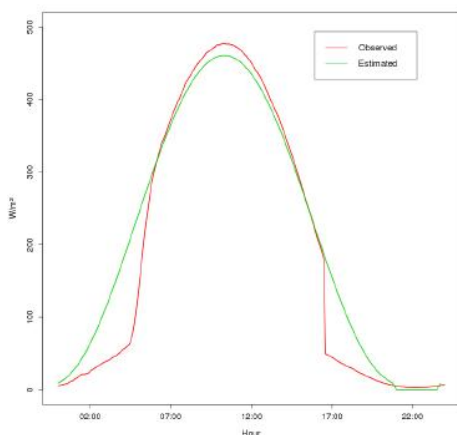




Bjørnøya



Hopen



Jan Mayen

