Annex

to the Understanding for the cooperation in the frame of the

Sentinel Collaborative Ground Segment between the European Space Agency and the Swedish National Space Board (SNSB), acting in its capacity of Sweden's National Point of Contact

(hereinafter "Letter of Understanding")

This Annex to the Understanding for the cooperation in the frame of the Sentinel Collaborative Ground Segment between ESA and SNSB, acting in its capacity of Sweden's National Point of Contact, of June 10th 2015, describes the technical details and specific provisions of Sentinel Collaborative Ground Segment initiatives conducted under the said Understanding.

1. Collaborative Archiving and Dissemination Centres (CAC), National mirror site

Entity conducting	Swedish National Space Board (SNSB)
the initiative	Point of Contact: Karin Holmquist (Karin.Holmquist@snsb.se)
Activity	SNSB intends to set up a national mirror site for hosting of data and dissemination to at least national users. Limited area data products will be processed for national authorities and at least national users and limited area data will be long-term archived. The mirror site will also intend to provide outreach, awareness and education.
ESA support	a) Access to Collaborative Data Hub
	ESA grants SNSB access to the Collaborative Data Hub (CollDH), a rolling archive, providing bulk dissemination capabilities for Sentinel data products. The CollDH will continuously store Sentinel data acquired during the last month(s) at the processing levels agreed as part of the Sentinel core data product list and the associated timeliness as defined in the CSC Operations Concept Document. It enables searching, browsing, previewing and downloading the Sentinel data. The time interval covered by the CollDH rolling archive will be scalable and include at least the last month of data. Access to the CollDH is allowed via a web authentication module. ESA will provide SNSB with a username and password to access the CollDH. This username and password may be used only by SNSB (including its representatives, employees and contractors involved in the initiative) for the purpose of the initiative and will not be shared with other natural or legal persons.

SNSB will use the CollDH access only for the purpose of its activity in the initiative described above. Through registration at the CollDH, accessing and\or downloading available content, SNSB shall not misuse or interfere with the service of the CollDH portal. In particular, SNSB aims at building up an own mirror archive of Sentinel data and hence will not repeat the download of identic datasets from the CollDH, but store downloaded Sentinel data for reuse and re-dissemination. All functionalities and contents offered by the CollDH are provided by ESA on a best efforts-basis, as set out in the Letter of Understanding and the "General Clauses and Conditions for the Sentinel Collaborative Ground Segment cooperation with GMES Space Component Participating States" (hereinafter "General Clauses"). The transmission of content from the CollDH may be interrupted or delayed by ESA in the event of technical constraints, such as the internet bandwidth. In such case, the download requested by SNSB will be enabled later taking into account other users' requests. b) Data transfer ESA will provide appropriate interfaces, to transfer Sentinel data to SNSB via internet. Usage of GEANT network will be decided upon verification of technical feasibility. Time schedule The ESA support will start once Sentinel-1 data will become available in accordance with ESA data provision plan (e.g. after launch, commensurate with the ramp-up plan for data provision). Further data from Sentinel-2, Sentinel-3 and Sentinel-5 Precursor will be included as soon as available in accordance with the related ESA data provision plans. Operations of the National Mirror Site will be initiated once basic functionalities of the site has been developed and put in place, currently estimated to Q4, 2015. Long term plan is to keep the National Mirror Site as support for at least national user community to access limited area data and products. Reporting In line with section 5 of the Understanding, the NPC will keep ESA informed about the course and success of any Sentinel Collaborative Ground Segment initiative. The regular reports regarding the national mirror site shall have at least annual frequency, and shall as a minimum contain information regarding: Sentinel data use and applications; · Onward-dissemination of Sentinel data, including user statistics of the national mirror site; Any changes to the pre-agreed set up of activities that will have an impact on ESA's support to the national activities.

	More specifically, as concerns National Mirror Site usage statistics, the following minimum set of information shall be provided to ESA as part of the annual reports
	User account statistics, including:
	 Utilisation domain (i.e. research, commercial, education, other)
	 Usage field (i.e. atmosphere, emergency, marine, land, security, climate other)
	Data dissemination statistics, specifying:
	The amount and type of core products delivered
Sentinel data governance	Sentinel data made available via the CollDH is governed by the provisions of section 6 of the Understanding.