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ECoLaSS

Evolution of Copernicus Land Services based on Sentinel data



D19.4

"D61.3: Collection of Communication and Dissemination Material"

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3	JOANNEUM RESEARCH Forschungsgesellschaft mbH	JR	Graz, Austria
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AD01	Horizon 2020 Work Programme 2016 – 2017, 5 iii. Leadership in Enabling and Industrial Technologies – Space. Call: EO-3-2016: Evolution of Copernicus services. Issued: 13.10.2015
AD02	Guidance Document: Research Needs Of Copernicus Operational Services. Final Version issued: 30.10.2015
AD03	Proposal: Evolution of Copernicus Land Services based on Sentinel data. Proposal acronym: ECoLaSS, Proposal number: 730008. Submitted: 03.03.2016
AD04	Grant Agreement – ECoLaSS. Grant Agreement number: 730008 – ECoLaSS – H2020-EO-2016/H2020-EO-2016, Issued: 18.10.2016
AD05	D19.1_D61.1 - Project Website, Issue 1.0, Issued: 03.07.2017

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AD06	D19.2_D61.2 - Communication, Dissemination and Exploitation Plan, Issued: 29.09.2017

EXECUTIVE SUMMARY

The Horizon 2020 (H2020) project, “Evolution of Copernicus Land Services based on Sentinel data” (ECoLaSS) addresses the H2020 Work Programme 5 iii. Leadership in Enabling and Industrial technologies - Space, specifically the Topic EO-3-2016: Evolution of Copernicus services. ECoLaSS is being conducted from 2017–2019 and aims at developing and prototypically demonstrating selected innovative products and methods for future next-generation operational Copernicus Land Monitoring Service (CLMS) products of the pan-European and Global Components. This will contribute to demonstrating operational readiness of the finally selected products, and shall allow the key CLMS stakeholders (i.e. mainly the Entrusted European Entities (EEE) EEA and JRC) to take informed decisions on potential procurement of the next generation of Copernicus Land services from 2020 onwards.

To achieve this goal, ECoLaSS makes full use of dense time series of Sentinel-2 and Sentinel-3 optical data as well as Sentinel-1 Synthetic Aperture Radar (SAR) data. Rapidly evolving scientific as well as user requirements are analysed in support of a future pan-European roll-out of new/improved CLMS products, and the transfer to global applications.

This Deliverable D19.4: “D61.3: Collection of Communication and Dissemination Material” is the third Deliverable of Work Package (WP) 19: “WP61 - Communication, Dissemination & Exploitation” as part of the ECoLaSS Task 6: “Measures to maximise impact”. It constitutes a digital collection of all dissemination and communication materials produced by the project in the firsts Reporting Period until Month 18 (end of June 2018), comprising conference papers and proceedings, conference posters, public presentation slides, movies, articles prepared for the project webpage, posts on the ECoLaSS Twitter account on dissemination, a ResearchGate entry, and articles about ECoLaSS on other relevant websites and news portals.

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Abbreviations

BKG	German Federal Agency for Cartography and Geodesy
CAP	Common Agricultural Policy
CLMS	Copernicus Land Monitoring Service
DIAS	Data and Information Access Services
EARSC	European Association of Remote Sensing Companies
EARSeL	European Association of Remote Sensing Laboratories
ECoLaSS	Evolution of Copernicus Land Services based on Sentinel data project
EC	European Commission
EEA	European Environment Agency
EEEs	European Entrusted Entities
EO	Earth Observation
ESA	European Space Agency
ESRIN	European Space Research INstitute
EU	European Union
H2020	Horizon 2020 Programme
IACS	Integrated Administration and Control System
IGARSS	International Geoscience and Remote Sensing Symposium
INSPIRE	INfrastructure for SPatial InfoRmation in Europe
JRC	Joint Research Centre
LULC	Land Use/Land Cover
MARS	Monitoring Agricultural ResourceS
MTES	Ministère de la Transition Écologique et Solidaire
NASA	National Aeronautics and Space Administration
OA	Open Access
REA	Research Executive Agency
SAR	Synthetic Aperture Radar
WP	Work Package

1. Introduction

The Horizon 2020 (H2020) project, “Evolution of Copernicus Land Services based on Sentinel data” (ECoLaSS) addresses the H2020 Work Programme 5 iii. Leadership in Enabling and Industrial technologies - Space, specifically the Topic EO-3-2016: Evolution of Copernicus services. ECoLaSS is being conducted from 2017–2019 and aims at developing and prototypically demonstrating selected innovative products and methods for future next-generation operational Copernicus Land Monitoring Service (CLMS) products of the pan-European and Global Land Components. This will contribute to demonstrating operational readiness of the finally selected products, and shall allow the key CLMS stakeholders (i.e. mainly the Entrusted European Entities (EEE) EEA and JRC) to take informed decisions on potential procurement of the next generation of Copernicus Land services from 2020 onwards.

ECoLaSS makes full use of dense time series of Sentinel-2 and Sentinel-3 optical data as well as Sentinel-1 Synthetic Aperture Radar (SAR) data. Rapidly evolving scientific as well as user requirements are analysed in support of a future pan-European roll-out of new/improved Copernicus Land Monitoring Service products, and the transfer to global applications.

The deliverable **D19.4: “D61.3: Collection of Communication and Dissemination Material”** is the third Deliverable of Work Package (WP) 19: “WP61 - Communication, Dissemination & Exploitation” as part of the ECoLaSS Task 6: “Measures to maximise impact”. It constitutes a digital collection of all dissemination and communication materials produced by the project until Month 18, comprising conference papers and proceedings, conference posters, public presentation slides, movies, articles prepared for the project webpage, posts on the ECoLaSS Twitter account on dissemination, a ResearchGate entry, and articles about ECoLaSS on other relevant websites and news portals.

These dissemination and communication materials have been described in the Deliverable “D19.2: D61.2 - Communication, Dissemination and Exploitation Plan” (AD06), which provides the basis for the project’s dissemination activities.

This Deliverables comprises three sections: The first is this introduction. The second gives an overview of the currently used dissemination and communication media in ECoLaSS, structured into (i) material presented at conferences and workshops, such as conference papers, presentations, movies and posters, (ii) the ECoLaSS webpage, (iii) social media activities, e.g. posts on Twitter or ResearchGate, (iv) webpage blog entries about news and events, and (v) other publications such as press releases.

2. Dissemination and Communication Media

This section gives an overview of the currently used dissemination and communication media in ECoLaSS with the corresponding overview of existing material. For the dissemination material that was too large in file size to be included into this document (i.e., all conference contributions: presentations, posters, movies, abstracts and papers) a separate zipped file was submitted with this Deliverable: **“D19.4_D61.3_CollectionOfCommunicationAndDisseminationMaterial_Issue 1_M18.zip”**. The filenames are listed in the corresponding Table 1.

2.1 Conferences and workshops

Table 1 gives an overview of those conferences and events where dissemination material, such as posters, presentations, movies, abstracts, or papers in conference proceedings, has been produced. Since the dissemination material is too big in file size to be included into this document, the files have been saved separately into a zip-file: “**D19.4_D61.3_CollectionOfCommunicationAndDisseminationMaterial_Issue 1_M18.zip**”, and filenames are listed in the corresponding table.

Table 1: Overview of all attended conferences and other events where dissemination material has been produced.

Conferences	Date	Location	Status	Participant	Filename
WorldCover 2017	14-16 March 2017	ESA, Frascati, Italy	Abstract & Poster	GAF (Linda Moser)	Moser_ECoLaSS_WorldCover_abstract_2017031416.pdf Moser_ECoLaSS_WorldCover_poster_2017031416.pdf
German National Copernicus User Forum	14-16 March 2017	Berlin, Germany	Presentation	GAF (Markus Probeck)	Probeck_ECoLaSS_GermanNationalForum_presentation_20170314.pdf
Atelier sur l'évolution des services Copernicus	14 June 2017	Paris, France	Presentation	SIRS (Christophe Sannier)	Sannier_ECoLaSS_Atelier_Copernicus_Evolution_presentation_20170614.pdf
Presentation at the University of Applied Sciences Munich	30 June 2017	Munich, Germany	Presentation	GAF (Linda Moser)	Moser_ECoLaSS_Univ-Applied-Sciences-Munich_presentation_20170630.pdf
Intergeo: Tradefair for geoinformation professionals	26-28 September 2017	Berlin, Germany	Poster	GAF (Markus Probeck)	Probeck_ECoLaSS_Intergeo_poster_20170926.pdf
MARS Conference	28-29 November 2017	Dublin, Ireland	Presentation	GAF (Linda Moser), SIRS (Christophe Sannier)	ECoLaSS_23rd_MARSConference_presentation_2017112829.pdf
10 th Conference on European Space Policy	23-24 January 2018	Brussels, Belgium	Presentation, Movie	GAF	ECoLaSS_DIASEuropeanSpacePolicyConference_presentation_2018012324.pdf ECoLaSS_DIASEuropeanSpacePolicyConference_movie_2018012324.mp4

Copernicus for Agriculture - Industry Workshop	5 Feb 2018	Brussels, Belgium	Presentation	GAF (Linda Moser) + SIRS (Baudouin Desclée) + UCL (Pierre Defourny)	Puzzolo_ECoLaSS_CopernicusForAgriculture_presentation_20180205.pdf
Multiply Workshop	6-8 Feb 2018	Frascati, Italy	Presentation	GAF (Linda Moser) SIRS (Sophie Villerot)	Moser_ECoLaSS_Multiply_poster_2018020608.pdf Moser_ECoLaSS_Multiply_presentation_2018020608.pdf
Séminaire data, data science et big data	14 March 2018	Paris La Défense, France	Presentation	SIRS (Christophe Sannier)	Sannier_MTES_BigData_20180314.pdf
Baveno Manifesto	20-21 Jun 2018	Baveno, Italy	Presentation, Movie	GAF (Markus Probeck)	ECoLaSS_BavenoManifesto_movie_2018062122.mp4 ECoLaSS_BavenoManifesto_presentation_2018062122.pdf
EARSeL/NASA LULC Workshop	11-12 July 2018	Chania, Crete	Abstract	GAF (Linda Moser)	Moser_ECoLaSS_EARSeL_abstract_20180709.pdf
IGARSS 2018	23-27 July 2018	Valencia, Spain	Paper (in press)	GAF (Linda Moser)	Moser_ECoLaSS_IGARSS2018_paper_20180723.pdf
INSPIRE Conference	18 - 21 September	Antwerp, Belgium	Abstract	GAF (tbd.)	Moser_ECoLaSS_Inspire_abstract_2018091821.pdf

2.2 Webpage

The webpage has been set up at www.ecolass.eu and will be maintained and regularly updated throughout the projects lifetime. For a detailed description of the project webpage, see the Deliverable D19.1: "D61.1 - Project Website", Issue 1.0 (AD05).

2.3 Social Media

TWITTER

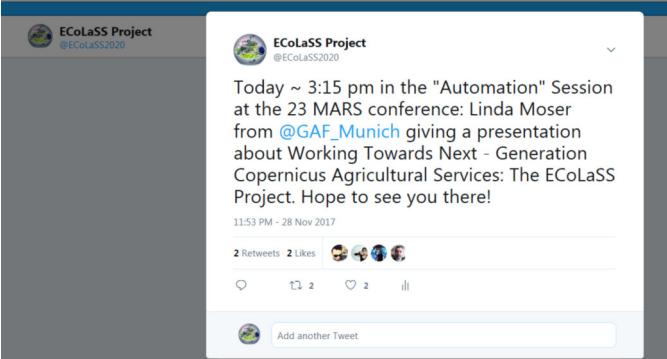
Table 2 gives an overview of all Twitter tweets made by ECoLaSS within the reporting period M1 - M18 including date and type (own tweet or retweet). All tweets can be also found on the twitter website of the project: <https://twitter.com/@ECoLaSS2020>

Table 2: Overview of all Twitter Tweets made by ECoLaSS within the Reporting Period M1 - M18.

Date	Tweet	Type
21.06.2018	<p>GAF AG @GAF_Munich · 21. Juni</p> <p>Developments of the @EU_H2020 project, led by @GAF_Munich, @ECoLaSS2020 are being shown at the mundi DIAS booth at the #Baveno20 event.</p> <p>#Copernicus20 #Copernicus #H2020 #InvestEUresearch #DIAS</p>  <p>SIRS, UCLouvain, DLR - English und 2 weitere</p> <p>Reply 3 Retweet 11</p>	Tweet (GAF)

09.02.2018		Tweet
06.02.2018		Retweet
06.02.2018		Retweet

05.02.2018		Retweet
07.12.2017		Tweet
29.11.2017		Retweet

28.11.2017		Tweet
28.11.2017		Retweet
28.11.2017		Tweet

24.10.2017		Tweet
09.10.2017		Tweet
09.10.2017		Tweet

09.10.2017		Retweet
28.09.2017		Tweet
27.09.2017		Tweet
11.09.2017		Tweet

RESEARCHGATE

Figure 1 shows a screenshot of the Project description on ResearchGate, which is available at <https://www.researchgate.net/project/ECoLaSS>. ResearchGate is a special social network for scientists, where they can connect to each other and exchange publications, data, etc.

The screenshot shows the ResearchGate project page for 'ECoLaSS'. At the top, there's a navigation bar with 'Home', 'Questions', and 'Jobs' links, a search bar, and a profile icon. Below the header, the project title 'ECoLaSS' is displayed with a 'Project' badge. It lists 'Annekatrin Metz-Marconcini' and 'Janik Deutscher' as members, with a link to 'Show all 18 collaborators'. A detailed project description follows, mentioning the goal of developing prototypes for Copernicus Land services using Sentinel data. Metrics on the right include 'Updates' (0), 'Recommendations' (0), 'Followers' (1), and 'Reads' (10). Below this, tabs for 'Project log', 'References', and 'Questions' are visible, along with 'Add research' and 'Add update' buttons. The main content area is titled 'Project log' and features a post by 'Annekatrin Metz-Marconcini' from March 2017. The post is about a 'Poster' titled 'Sentinel-based Evolution of Copernicus Land Services on Continental and Global Scale', which has been viewed 100 times. Other users mentioned in the post include Linda Moser, Markus Probeck, Gernot Ramminger, and Thomas Esch. There are also 'View' and 'Follow' buttons for the poster author.

Figure 1: Screenshot of project description on ResearchGate

2.4 Blog

In the following, blog posts are listed which have been made by ECoLaSS within the reporting period M1 - M18, available at: <https://www.ecolass.eu/news-events>.

Table 3: Blog posts on the ECoLaSS webpage.

15.02.2018	<h1>ECoLaSS @ Workshop of H2020 MULTIPLY Project held February 6th - 8th, 2018 at ESA/ESRIN in Frascati</h1> <p>February 15, 2018</p> <p>Around 40 participants from research institutes and EO service providers attended the workshop of the H2020 Multiply Project: "Integrating Sentinels data within the Multiply platform: Facilitating land surface parameter retrieval and earth observation applications", held February 6th - 8th, 2018 at ESA/ESRIN in Frascati. The workshop consisted of lectures, presentations and hands-on exercises and was a good platform for networking and further collaborations. ECoLaSS was presented in an oral as well as poster presentation.</p> 
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15.02.2018

ECoLaSS @ Copernicus for Agriculture - Industry Workshop on February 5th, 2018 in Brussels, Belgium

February 15, 2018

The [Copernicus for Agriculture - Industry Workshop](#), with the target to explore the exploitation of the full potential of the Copernicus programme in support of agriculture, took place on February 5th, 2018 in Brussels. The aim of the workshop was to address the potential role of the private (downstream) sector for possible solutions, integrating Copernicus data and Copernicus services' information, in support of the agricultural end-users at the different levels: international, European and Member States' level. Around 270 participants visited the event and ECoLaSS was presented in the framework of "H2020 research projects - evolution and applications of Copernicus for agriculture" by Virginia Puzzolo (EC REA).



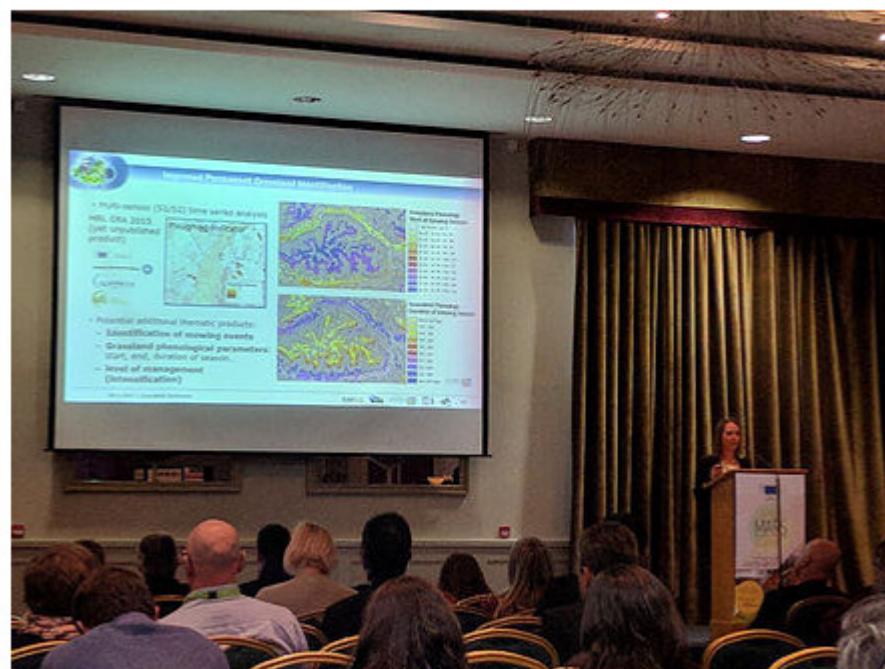
14.12.2017

ECoLaSS @ 23rd MARS Conference in Gormanston, Ireland from 27.-29. November 2017

December 14, 2017

GAF and SIRS attended the [23rd MARS conference](#), which took place in Gormanston, Ireland, on 28 and 29 November 2017. The conference provided a forum to exchange and discuss experiences and recent developments regarding the application of remote sensing within the Integrated Administration and Control System (IACS), focussing on the future objectives of the European Common Agricultural Policy (CAP). A shift in regulations and the control technology towards future inclusion of Sentinel-1 and -2 data was discussed. Click [here](#) for more info on GAF's participation.

GAF AG presented the ECoLaSS project emphasizing recent developments of automated processing chains for land cover classification with particular focus on agricultural and grassland services. The slides of the presentation can be found [here](#).



Linda Moser from GAF AG @ 23rd MARS conference (© GAF AG)

12.12.2017

First Review Meeting at EC-REA in Brussels on October 19th, 2017

December 12, 2017

The ECoLaSS consortium has successfully completed the first Review Meeting at EC-REA (Research Executive Agency) in Brussels on October 19th, 2017.

The most relevant achievements of the first nine months of the project are the stakeholder consultation for the definition of service evolution requirements, and analysis of Earth observation data and infrastructure requirements. The pre-processing of Sentinel-1 and Sentinel-2 time series data for all phase-1 test sites and initial methodological developments for the automated high data volume processing lines were carried out, related to classification and change detection of imperviousness, forest, grassland and agriculture.



The ECoLaSS Project team at EC-REA (© A. Metz-Marconcini, DLR).

29.03.2017

ECoLaSS @ WorldCover 2017 conference

March 29, 2017

The ECoLaSS Project concept and mission will be presented at the **WorldCover 2017 conference** in Frascati (Rome), Italy from 14-16 March 2017: **Sentinel-based Evolution of Copernicus Land Services on Continental and Global Scale** by Moser, L.*; Probeck, M.*; Ramminger, G.*; Sannier, C.²; Desclée B.²; Schardt, M.³; Gallaun, H.³; Deutscher, J.³; Defourny, P.⁰; Blaes X.⁰; Klein, I.**; Keil, M.**, Hirner, A.**, and Esch, T.**

*: GAF AG;

²: Systèmes d'Information à Référence Spatiale (SIRS) SAS;

³: JOANNEUM RESEARCH Forschungsgesellschaft mbH;

⁰: Université catholique de Louvain (UCL) – Earth and Life Institute (ELI);

**: German Aerospace Center (DLR) – German Remote Sensing Data Center (DFD)

The research leading to these results has received funding from the European Union's Horizon 2020 Research and Innovation Programme, under Grant Agreement no 730008.



20.01.2017

Project Kick-Off

January 20, 2017

The project team has conducted a successful Kick-Off Meeting on 20 January 2017 in Munich, attended by the project officer from EC REA (Research Executive Agency), and by key stakeholders from European Environment Agency (EEA) and the German Federal Agency for Cartography and Geodesy (BKG).

For more information [click here](#)



The ECoLaSS Project team at the Kick-Off Meeting, Munich (© M. Probeck, GAF).

01.01.2017

Project Start

January 1, 2017



The official start of the ECoLaSS project, which will have a duration of 36 months, was on 1st January 2017.

2.5 Other Publications

Table 4 gives an overview of other publications such as press releases in other thematic newspapers and magazines, i.e., Eomag! (<http://www.eomag.eu/>), Horizon Magazine (<https://horizon-magazine.eu/>), or research*eu results magazine (http://www.cordis.europa.eu/research-eu/home_en.html).

Table 4: Overview of other publications.

Publication name	Date	Type	Filename	Access Link
Eomag!	31.01.2017	Press release	ECoLaSS_EOmag_PR_20170131.pdf	http://eomag.eu/article/s/3902/gaf-ag-and-partners-will-investigate-the-future-evolution-of-copernicus-land-services-based-on-sentinel-data-the-ecolass-project
GAF AG	31.01.2017	Press release	ECoLaSS_GAF-AG_PR_20170131.pdf	https://www.gaf.de/content/gaf-ag-and-partners-will-investigate-future-evolution-copernicus-land-services-based
EARSC	06.02.2017	Press release	ECoLaSS_EARSC_PR_20170206.pdf	http://earsc.org/news/gaf-ag-and-partners-will-investigate-the-future-evolution-of-copernicus-land-services-based-on-sentinel-data-the-ecolass-project

3. Conclusions and Outlook

This deliverable D19.4: “D61.3: Collection of Communication and Dissemination Material” contains a digital collection of all dissemination and communication materials produced by the project until Month 18, which is according to the Dissemination and Communication material planned in the D19.2: “D61.2 - Communication, Dissemination and Exploitation Plan” (AD06). This collection comprises of conference papers and proceedings, conference posters, public presentation slides, movies, articles prepared for the project webpage, posts on the ECoLaSS Twitter account on dissemination, a ResearchGate entry, and articles about ECoLaSS on other relevant websites and news portals.

In the second project phase ECoLaSS will continue producing all above-mentioned material. Project team members will attend various events and conferences to carry out dissemination activities. In addition, project flyers and brochures, as well as open access (OA) publications in scientific journals are targeted for the second project phase.