

## Horizon 2020

Space Call - Earth Observation: EO-3-2016: Evolution of Copernicus services

Grant Agreement No. 730008

# ECoLaSS

## Evolution of Copernicus Land Services based on Sentinel data



## D19.5

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

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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

ID	DOCUMENT NAME / ISSUE DATE
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
AD06	D19.3_D61.2b – Communication, Dissemination and Exploitation Plan (Issue 2), Issued: 29.04.2019
AD07	D19.4_D61.3a – Collection of Communication and Dissemination Materials (Issue 1), Issued: 28.06.2018

## 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 as candidates for future next-generation operational Copernicus Land Monitoring Service (CLMS) products of the pan-European and Global Components. ECoLaSS assesses the operational readiness of such candidate products and eventually suggests some of these for implementation. This shall enable the key CLMS stakeholders (i.e. mainly the Entrusted European Entities (EEE) EEA and JRC) to take informed decisions on potential procurement as (part 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 D19.5: “D61.3b: Collection of Communication and Dissemination Material” is the fifth Deliverable of Work Package (WP) 61: “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. It integrates the first collection of materials submitted at mid-project “D19.4 D61.3a – Collection of Communication and Dissemination Materials” [AD07] and thus contains all dissemination materials over the entire project duration. It comprises conference papers and proceedings, conference posters, public presentation slides, movies, articles published on the project webpage, posts on the ECoLaSS Twitter account on dissemination, 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 **D19.5: “D61.3b: Collection of Communication and Dissemination Material”** is the fifth Deliverable of Work Package (WP) 61: “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 during the entire project duration, 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 planned and described in the Deliverable “D19.3: D61.2b - Communication, Dissemination and Exploitation Plan” (PEDR) [AD06], which provided the basis for the project’s dissemination activities. Dissemination activities via the project website were initially documented in [AD05] and further reports on ongoing activities were included in [AD06].

This deliverables comprises three sections: The first is this introduction. The second gives an overview of the 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, (v) other publications such as press releases, and (vi) activities to promote ECoLaSS prototype products via web mapping services. The last section summarizes the conclusions and outlook.

## 2. Dissemination and Communication Media

This section gives an overview of the dissemination and communication media made use of 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: **“D19.5\_D61.3b\_CollectionOfCommunicationAndDisseminationMaterial\_Issue2\_M36.zip”**. The filenames are listed in the corresponding Table 1.

## 2.1 Conferences and workshops

Table 1 gives an overview of all conferences and events with ECeLaSS participation and lists all dissemination material, such as posters, presentations, movies, abstracts, or papers in conference proceedings, which were been produced therefor and which are submitted in addition to this report. Since the dissemination material is too voluminous in file size to be included into this document, the files have been submitted separately in a zip archive: “D19.5\_D61.3b\_CollectionOfCommunicationAndDisseminationMaterial\_Issue2\_M36.zip”, and filenames are listed in the corresponding table. Documents listed in this table are found under the root directory “ECeLaSS\_Scientific\_Contributions”.

**Table 1: Overview of all attended conferences and other events where dissemination material has been produced. Legend: Type: DC = Dissemination / Conference, SI = Stakeholder interaction, DU = Dissemination / Presentation, DW Dissemination / Workshop; Contribution: PP = Poster Presentation, OP = Oral Presentation PA = Participation**

Event	Date	Venue	Contri-bution	Type of Event	Parti-cipant	Materials	Directory/File
<b>2017</b>							
WorldCover 2017	14-16 March 2017	Frascati, Italy	PP	DC	GAF	Poster Abstract	<b>201703_Worldcover/ECoLaSS_201703_Abstract_WORLDCOVER.pdf</b> <b>201703_Worldcover/ECoLaSS_201703_Poster_WORLDCOVER.pdf</b>
German National Copernicus User Forum	14-16 March 2017	Berlin, Germany	OP	SI	GAF	Slides	<b>201703_GermanNationalCopernicusForum/ECoLaSS_201703_Presentation_NCF.pdf</b>
CNES COSPACE Workshop on Vegetation	28 March 2017	Paris, France	PA	DC	SIRS	NA	NA
French Copernicus stakeholders workshop	30 March 2017	Marne la Vallée, France	PA	SI	SIRS	NA	NA
French Ministry of Solidary Ecological Transition	13 April 2017	France	PA	SI	SIRS	NA	NA
International Symposium on Remote Sensing of Environment (ISRSE)	8-12 May 2017	Tshwane, South Africa	PA	DC	SIRS	NA	NA

French National Copernicus User Forum	14 June 2017	Paris, France	OP	SI	SIRS	Slides	<a href="#">201706_FrenchNationalCopernicusForum/ECoLaSS_201706_Presentation_NCF.pdf</a>
MultiTemp 2017	27-29 June 2017	Bruges, Belgium	PA	DC	GAF, SIRS, UCL	NA	NA
Presentation at the University of Applied Sciences Munich	30 June 2017	Munich, Germany	OP	DU	GAF	Slides	<a href="#">201707_UniversityOfAppliedSciencesMunich/EcoLaSS_201707_Presentation_UM.pdf</a>
Annual General Meeting of the European Association of Remote Sensing Companies (EARSC)	04-05 July 2017	Brussels, Belgium	PA	SI	GAF	NA	NA
CCI+ Information Day	6 July 2017	Frascati, Italy	PA	SI	UCL, GAF	NA	NA
IUFRO 125th Anniversary Congress	19-22 September 2017	Freiburg, Germany	OP	DC	JR	NA	NA
Intergeo: Tradefair for geoinformation professionals	26-28 September 2017	Berlin, Germany	OP, Booth	DC	GAF	Poster	<a href="#">201709_Intergeo/EcoLaSS_201709_Poster_INTERGEO.pdf</a>
EuroGeographic Land Meeting	15 November 2017	Brussels, Belgium	PA	SI	GAF, SIRS	NA	NA
EEA Land Monitoring & CLC+ Workshop (tbd.)	16 November 2017	Brussels, Belgium	PA	SI	GAF	NA	NA
Multiply – Sensagri – EcoLaSS Meeting	17 November 2017	Brussel, Belgium	PA	SI, DW	GAF, SIRS	NA	NA
MARS Conference	28-29 November 2017	Dublin, Ireland	OP	DC	GAF, SIRS	Slides	<a href="#">201711_MARS/EcoLaSS_201711_Presentation_MARS.pdf</a>
Big Data from Space Conference	28-29 November 2017	Toulouse, France	PA	DC	GAF, SIRS	NA	NA

Meeting with DG CLIMA	7 December 2017	Brussels, Belgium	PA	SI	GAF	NA	NA
Meeting with EEA	14 December 2017	Copenhagen, Denmark	PA	SI	GAF, SIRS	NA	NA

2018							
European Space Policy Conference	23. -24. February 2018	Brussels, Belgium	PA	DC	GAF	Slides	<a href="#">201801_EuropeanSpacePolicyConference/EcoLaSS_201801_Presentation_ESPC.pdf</a>
Meeting with DG AGRI	01 February 2018	Brussels, Belgium	PA	SI	GAF, SIRS	NA	NA
Meeting with DG ENV	02 February 2018	Brussels, Belgium	PA	SI	GAF	NA	NA
Copernicus for Agriculture – Industry Workshop	05 February 2018	Brussels, Belgium	OP	DW	GAF, SIRS, UCL	Slides	<a href="#">201802_CopernicusForAgriculture/EcoLaSS_201802_Presentation_CFA.pdf</a>
Multiply Workshop	06-08 February 2018	Frascati, Italy	PP, OP	DW	GAF, SIRS	Poster, Slides	<a href="#">201802_Multiply/EcoLaSS_201802_Poster_MULTIPLY.pdf</a> <a href="#">201802_Multiply/EcoLaSS_201802_Presentation_MULTIPLY.pdf</a>
Meeting with DG REGIO	14 March 2018	Brussels, Belgium	PA	SI	SIRS, DLR	NA	NA
Seminaire data, data science et big data	14 March 2018	Paris, France	OP	DC	SIRS	Slides	<a href="#">201803_DataScienceAndBigData/EcoLaSS_201803_Presentation_BIGDATA.pdf</a>
PROBA-V Symposium 2018	29-31 May 2018	Brussels, Belgium	PA	DC	UCL	NA	NA
Copernicus Event “20 years Baveno Manifesto”	20-21 June 2018	Baveno, Italy	PA	SI	GAF	Slides	<a href="#">201806_BavenoManifesto/EcoLaSS_201806_Presentation_BAVENO.pdf</a>
EARSC Workshop on Data and Information Access Services (DIAS)	26 June 2018	Brussels, Belgium	PA	SI	GAF, SIRS	NA	NA
EARSC Workshop on the future of the European EO/Copernicus	27 June 2018	Brussels, Belgium	PA	SI	GAF	NA	NA

EARSeL/NASA LULC Workshop	11-12 July 2018	Chania, Crete	OP	DC	GAF	Poster, Slides	<a href="#">201807_EARSEL/EcoLaSS_201807_Abstract_EARSEL.pdf</a> <a href="#">201807_EARSEL/EcoLaSS_201807_Poster_EARSEL.pdf</a> <a href="#">201807_EARSEL/EcoLaSS_201807_Presentation_EARSEL.pdf</a>
IGARSS 2018	23-27 July 2018	Valencia, Spain	OP	DC	GAF	Paper, Slides	<a href="#">201807_IGARSS/EcoLaSS_201807_Paper_IGARSS.pdf</a> <a href="#">201807_IGARSS/EcoLaSS_201807_Presentation_IGARSS.pdf</a>
Theia days 2018	16-18 October 2018	Montpellier, France	PA	SI	SIRS	NA	NA
INSPIRE Conference	18 – 21 September 2018	Antwerp, Belgium	OP	DC	GAF	Slides	<a href="#">201809_INSPIRE/EcoLaSS_201809_Abstract_INSPIRE.pdf</a> <a href="#">201809_INSPIRE/EcoLaSS_201809_Presentation_INSPIRE.pdf</a>
Intergeo 2018: Tradefair for geoinformation professionals	16-18 Oktober 2018	Frankfurt, Germany	Booth	DC	GAF	Flyer	<a href="#">201911_MARS/EcoLaSS_201911_Flyer_MARS.pdf</a>
ESA Φ-week	12-16 November 2018	Frascati, Italy	PA	DC	SIRS	NA	NA
Exchange meeting of CLMS related H2020 projects and Copernicus Entrusted Entities	15 November 2018	Brussels, Belgium	OP	SI	GAF, SIRS, UCL	Slides	<a href="#">201811_H2020EcoLaSS_201811_Presentation_H2020.pdf</a>
MARS Conference	21-22 November 2018	Dubrovnik, Croatia	OP	DC	SIRS	Slides	<a href="#">201811_MARS/EcoLaSS_201811_Presentation_MARS.pdf</a>

2019							
ESA BigDataFromSpace BIDS 2019	19-21 Feb 2019	Munich, Germany	PP	DC	GAF, SIRS, DLR	Poster	<a href="#">201902_BigDataFromSpace/ECoLaSS_201902_Poster_BIDS.pdf</a>
French Copernicus Days	11 Feb 2019	Toulouse, France	PA	SI	SIRS	NA	NA
Exchange meeting of CLMS related H2020	10 Apr 2019	Valladolid, Spain	OP	SI	GAF, SIRS	Slides	<a href="#">201904_IACS/ECoLaSS_201904_Presentation_IACS.pdf</a>

projects							
2019 IACS workshop	11 Apr 2019	Valladolid, Spain	OP	SI	GAF, SIRS, UCL	Slides	<a href="#">201904_IACS/ECoLaSS_201904_Presentation_IACS.pdf</a>
ESA Living Planet Symposium 2019	13-17 May 2019	Milan, Italy	OP, PP, Booth	DC	GAF, SIRS, DLR	Poster, Slides	<a href="#">201905_LPS/ECoLaSS_201905_Poster_LPS.pdf</a> <a href="#">201905_LPS/ECoLaSS_201905_Presentation_1_LPS.pdf</a> <a href="#">201905_LPS/ECoLaSS_201905_Presentation_2_LPS.pdf</a>
Munich RS Symposium	19-20 September 2019	Munich, Germany	PP	DC	GAF	Poster	<a href="#">201909_ECoLaSS/ECoLaSS_201909_Poster_MRSS.pdf</a>
MARS Conference	26-28 November 2019	Prague, Czech Republic	OP, Booth	DC	GAF	Slides, Flyer	<a href="#">201911_MARS/ECoLaSS_201911_Presentation_MARS.pdf</a> <a href="#">201911_MARS/ECoLaSS_201911_Flyer_MARS.pdf</a>
French MAESTRIA User Workshop	3 December 2019	Paris, France	OP	SI	SIRS	Slides	<a href="#">201912_MAESTRIA_LULC/ECoLaSS_201912_Presentation_MAESTRIA.pdf</a>

2020							
ISPRS 2020	14 - 20 June 2020	Nice, France	PA planned	DC	SIRS	NA	NA

## 2.2 Webpage

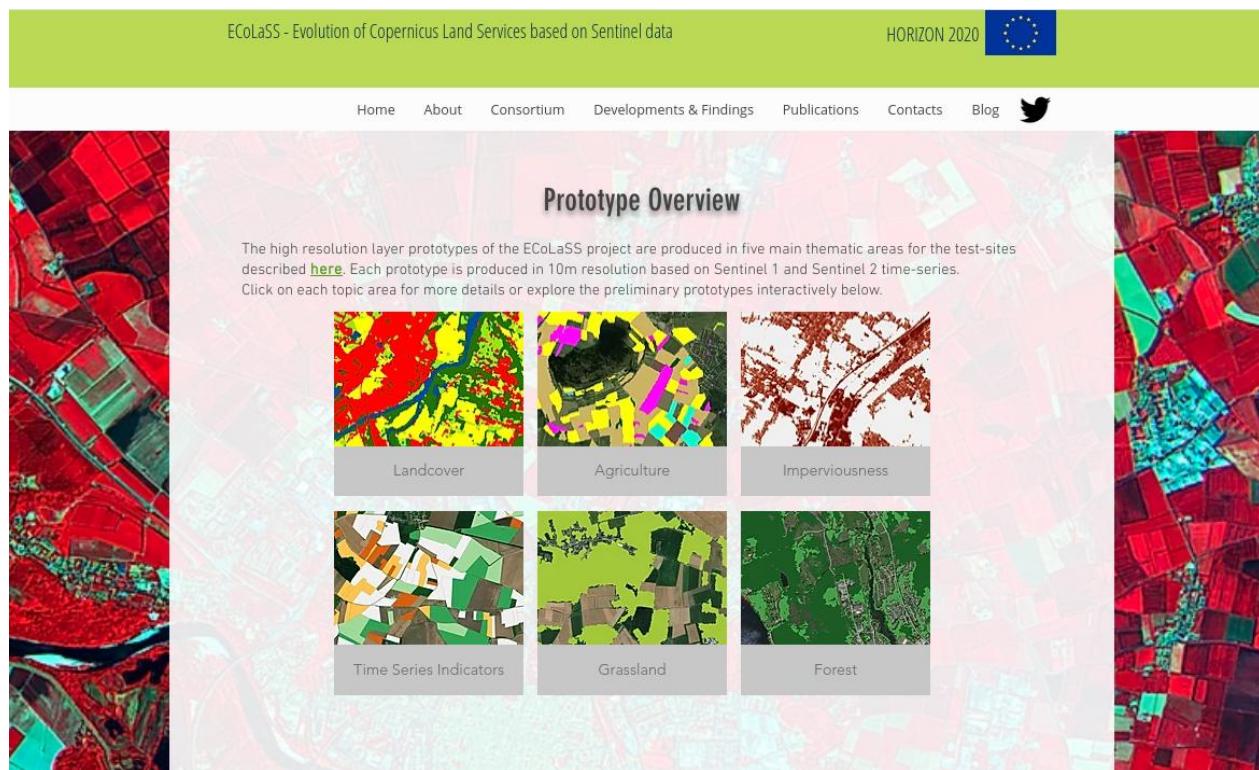
The project webpage has been set up at [www.ecolass.eu](http://www.ecolass.eu) and was maintained and regularly updated throughout the projects lifetime as planned and reported in D19.1: “D61.1 - Project Website” [AD05]. After project end the website will remain online for another two years in order to maximise the project’s impact and provide the ability to advertise post-project publications.

Due to its interactive nature, the website is best evaluated online and hence is not reproduced here in its entirety. Nevertheless, notable mentions shall be given here to the open-access distribution of ECoLaSS deliverables and publications (Figure 1), the interactive exploration of ECoLaSS prototypes (Figure 2, Figure 3) and very high-level summaries of ECoLaSS findings grouped by work-packages (Figure 4).

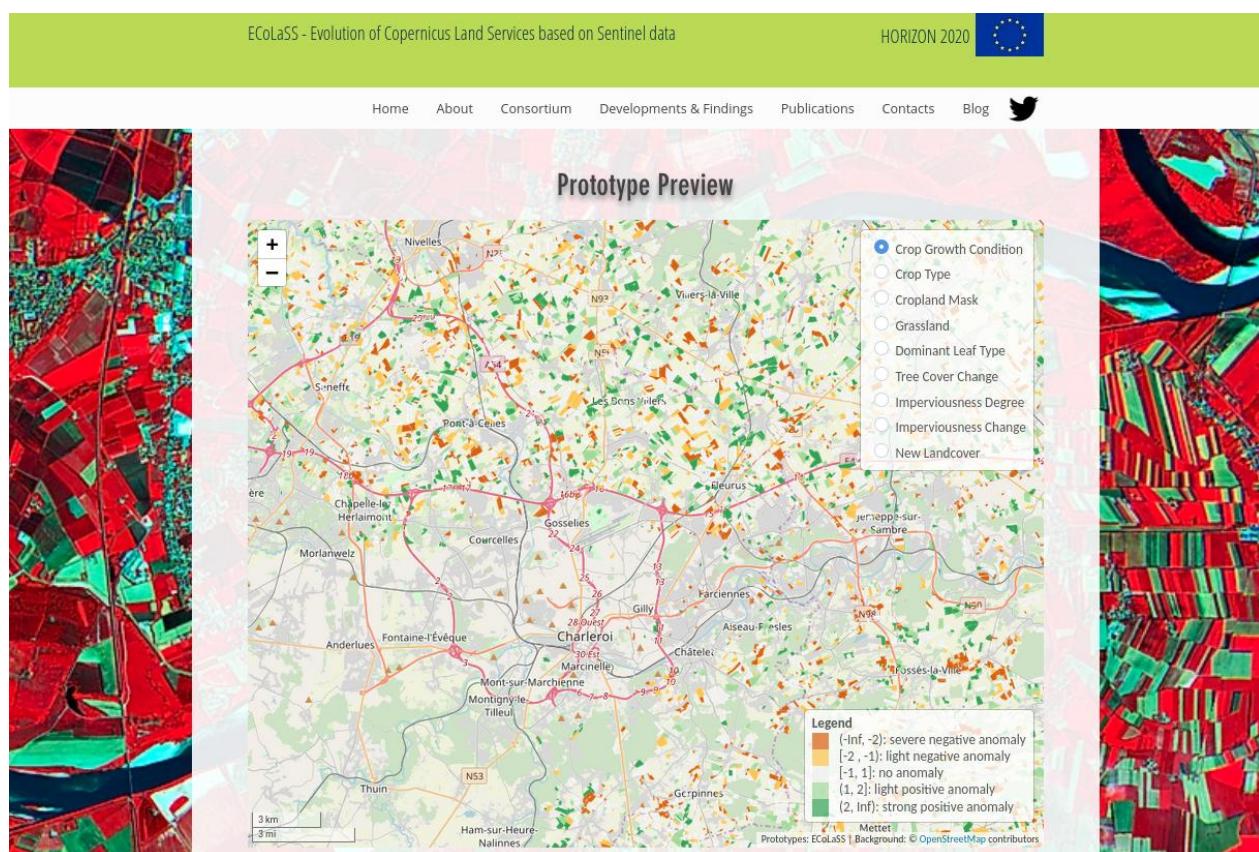
The screenshot shows the ECoLaSS project webpage with a green header bar containing the text "ECoLaSS - Evolution of Copernicus Land Services based on Sentinel data" and the "HORIZON 2020" logo with the European Union flag. Below the header is a navigation menu with links to Home, About, Consortium, Developments & Findings, Publications, Contacts, and Blog, along with a Twitter icon. The main content area features a background image of stacked books. The title "Project Deliverables" is centered above a list of tasks. Each task is preceded by a green heading and a list of deliverables. The tasks listed are:

- TASK 2: Consolidation of Copernicus Land Evolution Requirements**
  - Deliverable D2.2 - Data Warehouse Use for 2018
  - Deliverable D3.1 - Service Evolution Requirements Report
  - Deliverable D4.2 - EO and other Data Requirements Report Vol. 2
  - Deliverable D5.2 - Service Infrastructure / Architecture Requirements Report Vol. 2
- TASK 3: Automated High Data Volume Processing Lines**
  - Deliverable D6.1 - Methods Compendium: Sentinel-1/2/3 Integration Strategies
  - Deliverable D7.2 - Methods Compendium: Time Series Preparation Vol. 2
  - Deliverable D8.1 - Methods Compendium: Time Series Analysis for Thematic Classification
  - Deliverable D9.1 - Methods Compendium: Time Series Analysis for Change Detection
  - Deliverable D10.1 - Methods Compendium: HRL Time Series Consistency for HRL Product (incremental) Updates
- TASK 4: Thematic Proof-of-Concept / Prototype on Continental / Global Scale**
  - Deliverable D11.1 - Prototype Report: Time Series-derived Indicators and Variables
  - Deliverable D12.1 - Prototype Report: Consistent HR Layer Time Series/Incremental Updates
  - Deliverable D13.1 - Prototype Report: Improved Permanent Grassland
  - Deliverable D14.1 - Prototype Report: Crop Area and Crop Status/Parameters
  - Deliverable D15.1 - Prototype Report: New LC/LU Products
- TASK 5: Operationalisation Framework**
  - Deliverable D16.3 - Stakeholder Consultation Report Vol. 3
  - Deliverable D17.1 - Report on Candidates for Operational Roll-out
  - Deliverable D18.1 - Integration Plan into Copernicus Service Architecture
  - Deliverable D18.3 - White Paper on Copernicus Land Evolution
- TASK 6: Communication, Dissemination and Exploitation**
  - Deliverable D19.3 - Communication, Dissemination and Exploitation Plan Vol. 2

Figure 1 Open-access to all ECoLaSS deliverables available at <https://www.ecolass.eu/project-deliverables>



**Figure 2** ECoLaSS prototype showcasing available at <https://www.ecolass.eu/hrlprototypes>



**Figure 3** ECoLaSS prototype showcasing by interactive web maps available at <https://www.ecolass.eu/hrlprototypes>

ECoLaSS - Evolution of Copernicus Land Services based on Sentinel data

HORIZON 2020

Home About Consortium Developments & Findings Publications Contacts Blog

## Operationalization Framework

Task 5 of the ECoLaSS project focuses on establishing the necessary steps to bring the developed HRI prototypes into production. In the following the requirements found in the individual work-packages are summarized.

**WP 51: Stakeholder Consultation**

The stakeholder consultation process has the purpose of gathering their feedback on the technical developments and adaptation needs in ECoLaSS. In detail this means assessing current and evolving priorities, and to allow an informed discussion on the stakeholder's side. With that objective, the project consortium used different ways to contact the respective institutions: telecons, meetings, webinars, or workshops and other events. Summarizing the project's achievements in stakeholder consultation until now, substantial and fruitful interactions have been taking place with all major relevant European (EEA, JRC, EC DGs) and many national stakeholders (e.g. Bundesamt für Kartographie und Geodäsie, Environmental Agency Austria, National Reference Centres). Besides, a multitude of further stakeholder groups (e.g. EIONET, EARSC, EARSeL) was included in the assessment. The stakeholder consultation is planned to be continued until the end of the project in December 2019.

**WP 52: Candidates for Operational Roll-out**

Before the newly developed or improved products can be integrated in the Copernicus Service Architecture it has to be analysed which of the prototypes created in ECoLaSS are the most promising in terms of matureness. A detailed benchmarking assessment has been made, where the prototypes developed in Task 4 of the project are analysed towards manifold criteria (e.g. long-term evolution, maturity/timing, automation level, cost/benefit (forecast)). Based on the different benchmarking criteria an overall score is calculated for each prototype. The higher that score, the more mature/ready the respective prototype is. The outcomes of this assessment are as follows:

Service or product candidate	Score	Verdict
Incremental IMD Change	61.50	most promising
Incremental Forest Change	60.50	
Improved Grassland Status Layer at 10m	60.00	
Improved DLT Status Layer at 10m	58.50	high potential
Improved IMD Status Layer at 10m	59.50	
New Crop Mask Status Layer at 10m	58.50	
New Crop Type Status Layer at 10m	56.50	
Crop Growth Condition	56.00	experimental
CLC Evolution	54.00	
Crop Emergence Date Map	52.50	
Generic Land Cover Metrics	51.50	

Figure 4 Summaries of ECoLaSS findings available at <https://www.ecolass.eu/operationalization>

## 2.3 Prototype Dissemination

A major output of the ECoLaSS project were the prototypes of novel and improved high resolution layers. Within each Task 4 work package a number of such prototypes were produced. In order to showcase these to interested public and expert audiences they were integrated into a web mapping server.

Easiest access to the data is directly via the ECoLaSS homepage, which provides interactive viewers for every prototype (e.g. Figure 3). In the background these data are hosted on the DLR Geoservice as WMS layers available at <https://geoservice.dlr.de/web/maps/demo:ecolass> (Figure 5). The server backend is open to the public and can also serve other WMS clients such as GIS software, as described in [AD06], allowing direct integration into client-side GIS software.

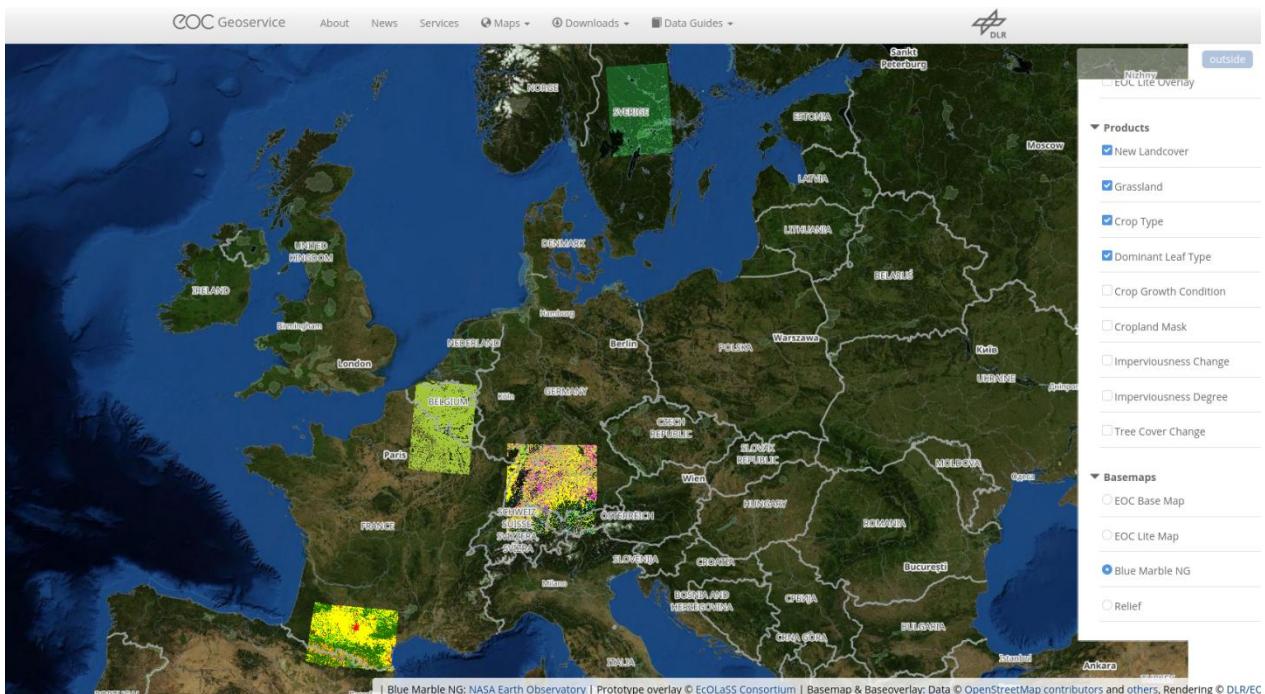


Figure 5 ECoLaSS prototypes as WMS service available at <https://geoservice.dlr.de/web/maps/demo:ecolass>

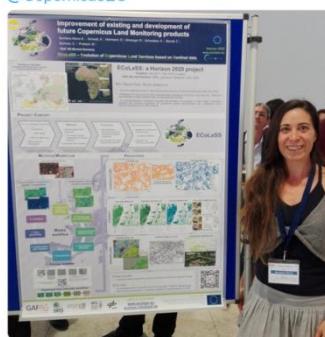
## 2.4 Social Media

The social media outreach of the ECoLaSS project was primarily accomplished by means of Twitter contributions. For outreach to the scientific community a project profile on ResearchGate was set up.

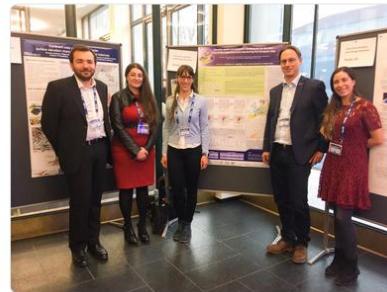
### 2.4.1 Twitter

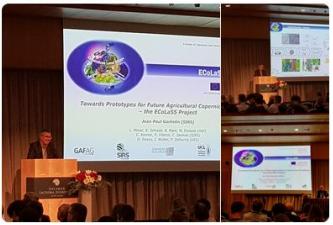
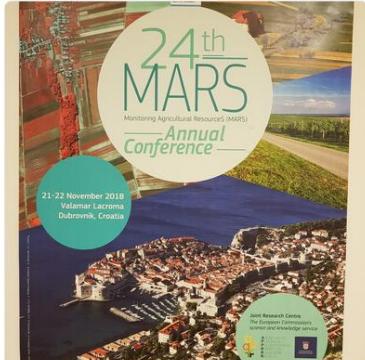
Table 2 gives an overview of all Twitter tweets made by ECoLaSS over the entire project period. All tweets and interactive statistics per tweet can be also found on the twitter website of the project, available at <https://twitter.com/@ECoLaSS2020>

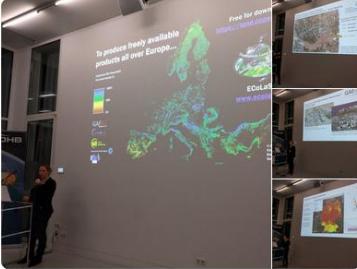
Table 2: Overview of all Twitter Tweets made regarding ECoLaSS.

Date	Tweet
20.09.2019	<p>ECoLaSS Project @ECoLaSS2020 Follow</p> <p>Vivid exchange on the latest results of the @ECoLaSS2020 project at #MRSS19 @TU_Muenchen, Munich. Agriculture, Forest, and Grassland prototypes were presented. Final project phase is fully ongoing! @EU_H2020 #H2020 #InvestEUresearch @CopernicusEU</p>  <p>4:08 AM - 20 Sep 2019</p> <p>3 Retweets 7 Likes</p>

12.07.2019	<p> <b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>Follow ▾</p> <p>Well on track for the final project phase: The <a href="#">@ECoLaSS2020</a> consortium at EC REA in Brussels presenting the project's status in the Interim Progress Meeting <a href="#">@EU_H2020</a> <a href="#">#H2020</a> <a href="#">#InvestEUresearch</a> <a href="#">@CopernicusEU</a></p>  <p>9:37 AM - 12 Jul 2019</p> <p>6 Retweets 12 Likes</p> <p>Reply 6 Like 12</p>
11.07.2019	<p> <b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>Follow ▾</p> <p>After a productive Technical Meeting of the <a href="#">@ECoLaSS2020</a> consortium at EC REA, Brussels today we are looking forward to tomorrow's Interim Progress Meeting <a href="#">@EU_H2020</a> <a href="#">#H2020</a> <a href="#">#InvestEUresearch</a> <a href="#">@CopernicusEU</a></p>  <p>1:55 PM - 11 Jul 2019</p> <p>4 Retweets 7 Likes</p> <p>Reply 4 Like 7</p>
24.05.2019	<p> <b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>Follow ▾</p> <p>Great success at <a href="#">#LPS2019</a>. Check out official highlights video <a href="https://youtube.com/watch?v=F1cjVY...">youtube.com/watch?v=F1cjVY...</a> featuring <a href="#">@ECoLaSS2020</a> members Markus Probeck and Gernot Ramminger. Project conference material is now available at <a href="#">ecolass.eu</a> <a href="#">@EU_H2020</a> <a href="#">#H2020</a> <a href="#">#InvestEUresearch</a> <a href="#">@CopernicusEU</a></p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"><p> <b>ECoLaSS</b> The project's key objectives are to develop several prototypes of new or enhanced Copernicus Land services of the Continental and the Global Component <a href="#">ecolass.eu</a></p></div> <p>11:03 AM - 24 May 2019</p> <p>4 Retweets 6 Likes</p> <p>Reply 4 Like 6</p>

<b>16.05.2019</b>	<p> <b>ECoLaSS Project</b>  <a href="#">@ECoLaSS2020</a></p> <p>Well received presentation of Markus Probeck on most recent results of the #ECoLaSS project starts us off for the grand finale of #LPS19.  <a href="#">#H2020 #InvestEUresearch @CopernicusEU</a></p>  <p>11:48 PM - 16 May 2019</p> <p>5 Retweets 8 Likes</p>
<b>16.05.2019</b>	<p> <b>ECoLaSS Project</b>  <a href="#">@ECoLaSS2020</a></p> <p>Don't miss the #ECoLaSS presentation @ #ESA #LPS19 tomorrow at 8.30 - Space 2 - Floor 0 @EU_H2020  <a href="#">#H2020 #InvestEUresearch @CopernicusEU</a></p> <p>11:32 AM - 16 May 2019</p> <p>2 Likes</p>
<b>20.02.2019</b>	<p> <b>Inés Ruiz</b>  <a href="#">@Senit1977</a></p> <p>The @ECoLaSS2020 team presenting their project at the poster session at #BIDS19 come visit them!</p>  <p>8:13 AM - 20 Feb 2019</p> <p>8 Retweets 14 Likes</p> <p>GAF AG, SIRS and Linda Moser</p>
<b>21.02.2019</b>	<p> <b>ECoLaSS Project</b>  <a href="#">@ECoLaSS2020</a></p> <p><a href="#">@EU_H2020 #H2020 #InvestEUresearch @CopernicusEU</a></p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  <b>GAF AG @GAF_Munich</b>          @Germot_Ra just finished his interesting presentation at #BIDS19! Please check by at our stand for further insights on @CopernicusLand and @mundiwebservice @ECoLaSS2020 VR capabilities! 😊 @GAF_Munich @TelespazioVEGA @DLR_de ...       </div> <p>3:49 AM - 21 Feb 2019</p> <p>1 Retweet 2 Likes</p>

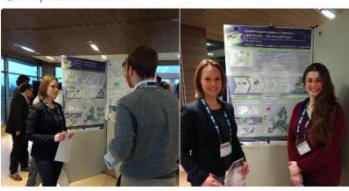
<b>3.12.2018</b>	<p><b>ECoLaSS Project</b>  <a href="#">@ECoLaSS2020</a></p> <p>Last week, the @ECoLaSS consortium met for a Technical Meeting at @GAF_Munich to kick-off prototype developments for the second phase of the project. @EU_H2020 #H2020 #InvestEUresearch @CopernicusEU</p>  <p>4:51 AM - 3 Dec 2018</p> <p>7 Retweets 12 Likes</p>
<b>23.11.2018</b>	<p><b>ECoLaSS Project</b>  <a href="#">@ECoLaSS2020</a></p> <p>Jean-Paul Gachelin from @SIRSfr presenting @ECoLaSS2020 agricultural prototypes at the 24th MARS Conference in Dubrovnik yesterday. @EU_H2020 #H2020 #InvestEUresearch @CopernicusEU @EUEnvironment</p>  <p>2:23 AM - 23 Nov 2018</p> <p>5 Retweets 8 Likes</p>
<b>21.11.2018</b>	<p><b>ECoLaSS Project</b>  <a href="#">@ECoLaSS2020</a></p> <p>Tomorrow, @ECoLaSS2020 agricultural prototypes will be presented by Jean-Paul Gachelin from @SIRSfr at ~3:45 pm at the 24th MARS Conference in Dubrovnik. See you there! Feel free to also visit us at the @e_geos @GAF_Munich booth. @EU_H2020 #H2020 #InvestEUresearch #CopernicusEU</p>  <p>7:30 AM - 21 Nov 2018</p> <p>4 Retweets 11 Likes</p>

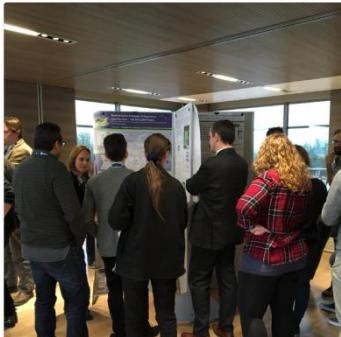
16.11.2018	<p>Linda Moser @LindaSpaceEO</p> <p>Presenting @GAF_Munich and #Copernicus products at the #SpaceTalks in #Munich to show how space data is used to solve our problems on Earth. @CopernicusEU @EUEnvironment @CopernicusEMS @ECoLaSS2020 #H2020 #InvestEuresearch</p>  <p>3:45 PM - 16 Nov 2018</p> <p>9 Retweets 28 Likes</p>
16.11.2018	<p>ECoLaSS Project @ECoLaSS2020</p> <p>Great exchange meeting between DG GROW, JRC, @EUEnvironment Agency and 4 @EU_H2020 sister projects @ECoLaSS2020, @sensagri, @multiply2020, @EO4AGRI, investigating the future of the @CopernicusLand services. @EU_Growth #H2020 #InvestEuresearch #CopernicusEU #CLMS #landmonitoring</p>  <p>4:15 AM - 16 Nov 2018</p> <p>6 Retweets 13 Likes</p>
16.11.2018	<p>ECoLaSS Project @ECoLaSS2020</p> <p>This week, @ECoLaSS2020 team members from @SIRSfr and @GAF_Munich were at @ESA_EO #PhiWeek. Very interesting to have an insight to all #DIAS at the "hands-on" sessions with concrete applications and end-to-end tutorials! @EU_H2020 #H2020 #InvestEuresearch #CopernicusEU</p>  <p>2:19 AM - 16 Nov 2018</p> <p>4 Retweets 9 Likes</p>

<b>26.09.2018</b>	<p> <b>ECoLaSS Project</b> <a href="#">@ECoLaSS2020</a> <a href="#">Follow</a></p> <p>Beginning of September 2018, the @ECoLaSS2020 team presented the progress made during the first 18 month period of the project to EC-REA in Brussels. @EU_H2020 #H2020 #InvestEUresearch #CopernicusEU</p>  <p>2:35 AM - 26 Sep 2018</p> <p>3 Retweets 9 Likes</p> <p> 9  3 </p>
<b>26.07.2018</b>	<p> <b>ECoLaSS Project</b> <a href="#">@ECoLaSS2020</a> <a href="#">Follow</a></p> <p>Yesterday, @LindaSpaceEO from @GAF_Munich presented the @ECoLaSS2020 research on "Crop Mapping for a future Copernicus Agricultural Service" at @igarss18vlc. #h2020 #IGARSS18VLC @ESA_EO @IEEE_GRSS @CopernicusEU #investEUresearch</p>  <p>12:10 AM - 26 Jul 2018</p> <p>4 Retweets 11 Likes</p> <p> 11  4 </p>

25.07.2018	<p>Linda Moser @LindaSpaceEO</p> <p>Follow</p> <p>Our @ECoLaSS2020 sister #h2020 project #sensagri was presented at @igarss18vlc #IGARSS18VLC @IEEE_GRSS @CopernicusEU #Copernicus</p>  <p>2:04 AM - 25 Jul 2018</p> <p>4 Retweets 12 Likes</p> <p>4 12</p>
25.07.2018	<p>ECoLaSS Project @ECoLaSS2020</p> <p>Follow</p> <p>Join us today, as Linda Moser from @GAF_Munich will be presenting @ECoLaSS2020 at @igarss18vlc in the session WE4.R at 18:10 in Room 1C. Hope to see you there! #h2020 #IGARSS18VLC @ESA_EO @IEEE_GRSS @CopernicusEU #investEUREsearch</p> <p>5:16 AM - 25 Jul 2018</p> <p>3 Retweets 6 Likes</p> <p>3 6</p>
12.07.2018	<p>ECoLaSS Project @ECoLaSS2020</p> <p>Follow</p> <p>Also @LindaSpaceEO from @GAF_Munich presented @ECoLaSS2020 at the "3rd joint #EARSEL LCLU &amp; NASA LCLUC Workshop" in Chania yesterday! @EU_H2020 @CopernicusEU #investEUREsearch @EU_Growth @EUEnvironment #Copernicus #H2020</p>  <p>12:59 AM - 12 Jul 2018</p> <p>7 Retweets 12 Likes</p> <p>7 12</p>

<b>11.07.2018</b>	<p><b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>Pierre Defourny from <a href="#">@UCLouvain_be</a> just gave the first keynote this morning at the 3rd joint <a href="#">#EARSeL</a> LCLU &amp; NASA LCLUC Workshop in Chania presenting also first results of <a href="#">@ECoLaSS2020</a> <a href="#">#Copernicus</a> <a href="#">#H2020</a> <a href="#">#investEUresearch</a> <a href="#">@EU_Growth</a> <a href="#">@EUEnvironment</a> <a href="#">@CopernicusEU</a></p>  <p>1:58 AM - 11 Jul 2018</p> <p>1 Retweet 4 Likes</p> <p>Follow</p>
<b>11.07.2018</b>	<p><b>GAF AG</b> @GAF_Munich</p> <p>"3rd joint <a href="#">#EARSeL</a> LCLU &amp; NASA LCLUC Workshop" in the framework of the 38th EARSeL Symposiums kicks off. <a href="#">@LindaSpaceEO</a> from <a href="#">@GAF_Munich</a> will present <a href="#">@ECoLaSS2020</a> in the afternoon. <a href="#">#Copernicus</a> <a href="#">#H2020</a> <a href="#">#investEUresearch</a> <a href="#">@EU_Growth</a> <a href="#">@EUEnvironment</a> <a href="#">@CopernicusEU</a></p>  <p>12:51 AM - 11 Jul 2018</p> <p>6 Retweets 7 Likes</p> <p>Copernicus EU, Market, Industry, SMEs and EU Environment</p> <p>Follow</p>
<b>10.07.2018</b>	<p><b>Linda Moser</b> @LindaSpaceEO</p> <p>EARSeL get together event in the sunset of Chanial! Looking forward to present <a href="#">@ECoLaSS2020</a> by <a href="#">@GAF_Munich</a> and partners tomorrow at the NASA/EARSeL LCLU workshop! <a href="#">#Copernicus</a> <a href="#">#H2020</a> <a href="#">#investEUresearch</a> <a href="#">@EU_Growth</a> <a href="#">@EUEnvironment</a> <a href="#">@CopernicusEU</a></p>  <p>11:30 AM - 10 Jul 2018</p> <p>7 Retweets 15 Likes</p> <p>Follow</p>

<b>21.06.2018</b>	<p><b>GAF AG</b> @GAF_Munich <a href="#">Follow</a></p> <p>Developments of the <a href="#">@EU_H2020</a> project, led by <a href="#">@GAF_Munich</a>, <a href="#">@ECoLaSS2020</a> are being shown at the mundi DIAS booth at the <a href="#">#Baveno20</a> event. <a href="#">#Copernicus20</a> <a href="#">#Copernicus</a> <a href="#">#H2020</a> <a href="#">#InvestEUresearch</a> <a href="#">#DIAS</a></p>  <p>7:38 AM - 21 Jun 2018</p> <p>4 Retweets 12 Likes</p> <p>SIRS, UCLouvain, DLR - English and 2 others</p> <p>4 12</p>
<b>09.02.2018</b>	<p><b>ECoLaSS Project</b> @ECoLaSS2020 <a href="#">Follow</a></p> <p>Poster by <a href="#">@ECoLaSS2020</a> is presented at the <a href="#">@multiply2020</a> <a href="#">#H2020</a> project workshop with the aim of testing the beta version of the MULTIPLY Platform, with <a href="#">@LindaSpaceEO</a> <a href="#">@GAF_Munich</a> and <a href="#">@Sophie_Villerot</a> <a href="#">@SIRSfr</a> at <a href="#">@ESA_EO</a> in Frascati <a href="#">@EU_H2020</a> <a href="#">@CopernicusEU</a></p>  <p>5:05 AM - 9 Feb 2018</p> <p>3 Retweets 7 Likes</p> <p>Add another Tweet</p>
<b>06.02.2018</b>	<p><b>Massimo Ciscato</b> @micscato <a href="#">Follow</a></p> <p><a href="#">@LindaSpaceEO</a> presenting <a href="#">@ECoLaSS2020</a> at the MULTIPLY <a href="#">#H2020</a> project workshop at <a href="#">@ESA_EO</a> in Frascati <a href="#">@EU_H2020</a> <a href="#">@CopernicusEU</a></p>  <p>7:55 AM - 6 Feb 2018</p> <p>5 Retweets 12 Likes</p> <p>2 12</p>

06.02.2018	<p> Esther Philips @esther_philips</p> <p>Follow</p> <p>Posterpresentation @H2020Projects MULTIPLY workshop. @ECoLaSS2020 is also presenting</p>  <p>8:26 AM - 6 Feb 2018</p>
05.02.2018	<p> Copernicus EU @CopernicusEU</p> <p>Following</p> <p>Virginia Puzzolo from EC's Research Executive Agency presents @EU_H2020 projects looking into evolution of @CopernicusLand and fostering #Agriculture downstream services</p>  <p>6:24 AM - 5 Feb 2018</p> <p>16 Retweets 22 Likes</p> <p>MarkeIndustry&amp;SMEs, EU EnvironmentAgency, EU Agriculture and 5 others</p> <p>16 22</p>
07.12.2017	<p> ECoLaSS Project @ECoLaSS2020</p> <p>The @ECoLaSS2020 presentation by @GAF_Munich at the 23rd Mars conference is now online! Check it out: <a href="http://ec.europa.eu/jrc/sites/jrcs...">ec.europa.eu/jrc/sites/jrcs...</a> @EU_H2020 #H2020 #InvestEUresearch #Copernicus</p> <p>1:28 AM - 7 Dec 2017</p> <p>3 Retweets 2 Likes</p> <p>3 2</p>

29.11.2017	<p>Linda Moser @LindaSpaceEO Follow</p> <p>Thank you for your interest in the @ECoLaSS2020 presentation by @GAF_Munich at the 23rd Mars conference on monitoring #agriculture resources with remote sensing</p>  <p>9:15 AM - 29 Nov 2017</p> <p>5 Retweets 4 Likes</p> <p>Copernicus EU, GAF AG, Copernicus Land Monitoring Service and 3 others</p> <p>9 5 4 0</p>
28.11.2017	<p>ECoLaSS Project @ECoLaSS2020</p> <p>Today ~ 3:15 pm in the "Automation" Session at the 23 MARS conference: Linda Moser from @GAF_Munich giving a presentation about Working Towards Next - Generation Copernicus Agricultural Services: The ECoLaSS Project. Hope to see you there!</p> <p>11:53 PM - 28 Nov 2017</p> <p>2 Retweets 2 Likes</p> <p>0 2 2 0</p>
28.11.2017	<p>EU_ScienceHub @EU_ScienceHub Follow</p> <p>Coming up: the 23rd MARS conference on monitoring #agriculture resources; w/ @EU_Agri and @agriculture_ie 🍀</p> <p><a href="http://europa.eu/cr69fx">europa.eu/cr69fx</a></p>  <p>Joint Research Centre The European Commission's science and knowledge service</p> <p>28-29 November 2017 CityNorth Hotel &amp; Conference Centre Gormanston, County Meath, Ireland</p> <p>Joint Research Centre The European Commission's science and knowledge service</p> <p>12:00 AM - 16 Nov 2017</p> <p>5 Retweets 5 Likes</p>

<p><b>28.11.2017</b></p>	<p><b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>23rd MARS conference has started and @ECoLaSS2020 colleagues from @GAF_Munich and SIRS are present to present first results of the project.</p>  <p>4:04 AM - 28 Nov 2017</p> <p>3 Retweets 10 Likes</p>
<p><b>24.10.2017</b></p>	<p><b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>The @ECoLaSS2020 Consortium met for the Review Meeting at EC-REA in Brussels last week @EU_H2020 #H2020 #InvestEUresearch #Copernicus!</p>  <p>11:44 PM - 24 Oct 2017</p> <p>1 Retweet 7 Likes</p>
<p><b>09.10.2017</b></p>	<p><b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>Our project @ECoLaSS2020 was made possible thanks to #H2020 #InvestEUresearch!</p>  <p>8:34 AM - 9 Oct 2017</p> <p>1 Retweet 4 Likes</p>

09.10.2017	<p> <b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>Successful @ECoLaSS2020 progress meeting in #Graz ! #ResearchImpactEU</p>  <p>8:31 AM - 9 Oct 2017</p> <p>2 Retweets 3 Likes</p> <p>Follow</p>
09.10.2017	<p> <b>EOPages</b> @EOPages</p> <p>Follow</p> <p>#H2020 Ecolass: GAF AG &amp; partners investigate future evolution of #Copernicus land services based on #Sentinel data <a href="http://bit.ly/2leWFga">bit.ly/2leWFga</a></p>  <p>1:41 AM - 6 Feb 2017</p> <p>2 Retweets 2 Likes</p> <p>Copernicus EU, GAF AG and earc</p> <p>Follow</p>
28.09.2017	<p> <b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>The @ECoLaSS2020 project coordinator presenting Copernicus Land at #INTERGEO #intergeo2017</p>  <p><b>Copernicus EU @CopernicusEU</b> Last day @InsideIntergeo with the #Copernicus stand, and we're presenting land applications of our data. Join us!</p> <p>5:48 AM - 28 Sep 2017</p> <p>1 Retweet 4 Likes</p> <p>Follow</p>

<p><b>27.09.2017</b></p>	<p> <b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>@ECoLaSS2020 now represented by GAF @ #INTERGEO @InsideIntergeo - for more info come visit us at the EC Copernicus booth in hall 3.1, A3.060</p>  <p>6:25 AM - 27 Sep 2017</p>
<p><b>11.09.2017</b></p>	<p> <b>ECoLaSS Project</b> @ECoLaSS2020</p> <p>ECoLaSS @EU_H2020 project goes twitter. Our website is now online. Check it out at: <a href="http://ecolass.eu">ecolass.eu</a> !! #ResearchImpactEU @EUJH2020</p> <p>6:16 AM - 11 Sep 2017</p> <p>0 0 0 0</p>

## 2.4.2 ResearchGate

Figure 6 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.

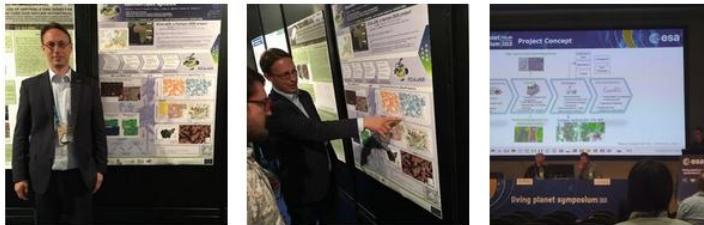
The screenshot shows the ResearchGate project page for 'ECoLaSS'. At the top, there's a navigation bar with 'Home', 'Questions', 'Jobs', a search bar, and a profile icon. Below the header, the project title 'ECoLaSS' is displayed with a 'Project' badge. It lists two members: Annekathrin Metz-Marconcini and Janik Deutscher, with a link to 'Show all 18 collaborators'. A brief description states: 'Goal: ECoLaSS (Evolution of Copernicus Land Services based on Sentinel data) is an EU Horizon2020 project to develop several prototypes of new or enhanced Copernicus Land services making full use of dense time series of SAR and optical Sentinel EO data. These'. To the right, there are metrics for '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 contains a single item from Annekathrin Metz-Marconcini on May 11, 2017, sharing a 'Poster' titled 'Sentinel-based Evolution of Copernicus Land Services on Continental and Global Scale'. The poster was shared in March 2017 and has 100 reads. There are also links to 'View' and 'Follow' the author.

Figure 6: Screenshot of project description on ResearchGate

## 2.5 Blog

In the following Table 3, blog posts are listed which have been made by ECoLaSS during the entire project duration. In total 17 entries were made, which can be found at <https://www.ecolass.eu/blog>.

**Table 3: Blog posts on the EcoLaSS webpage.**

15.07.2019	<p>Jul 15 · 1 min read</p> <h3>ECoLaSS Interim Progress Meeting 2 at EC-REA in Brussels</h3> <p>On 11-12. July 2019, the ECoLaSS team discussed the progress made during the 27 month period with the European Commission's Research Executive Agency (REA) in the frame of the Interim Progress Meeting. It was a great success and the team is looking forward to presenting the final results of the project within the next months. The consortium also took the opportunity to exchange about ongoing developments within a dedicated technical meeting in context to the Interim Progress Meeting.</p>  <p>A photograph showing a group of nine people standing in a row outdoors. They are dressed in professional attire, including several men in suits and women in blouses and dresses. They are positioned in front of a large glass building with extensive greenery on its facade.</p>
22.05.2019	<p>May 22 · 1 min read</p> <h3>ECoLaSS @ Living Planet Symposium 2019 in Milan, Italy</h3> <p>Updated: May 24</p> <p>From May 13th to May 17th 2019 the <a href="#">ESA Living Planet Symposium</a> took place in Milan, Italy. This international conference with focus on Earth Observation is one of the worldwide biggest events of this kind. All ECoLaSS partners attended (GAF AG, SIRS, JR, UCL, DLR). Recent ECoLaSS developments were presented in two oral presentations held by Markus Probeck from GAF AG and Pierre Defourny from UCL, showing examples of incremental updates of High Resolution layers, improved Grassland identification crop type mapping and phenology indicators. Furthermore a poster with the latest outcomes of the Agriculture Prototypes was also a success.</p>  <p>Three smaller photographs illustrating the event. The first shows a man in a suit standing next to a large poster. The second shows two people examining a poster closely. The third shows a presentation slide titled "Project Concept" with various diagrams and text, displayed on a screen.</p>

25.02.2019	<p>Feb 25 ~ 1 min read</p> <h2>ECoLaSS @ Big Data from Space conference held February 19th – 21st, 2019 by ESA in Munich</h2> <p>The <a href="#">Big Data from Space Conference</a> organised by ESA, JRC, and SatCen took place in Munich this year, bringing together different European actors from research, industry, institutions, and users. It was held from February 19th to February 21st and had its focus on data acquisition, repositories, management, analysis, and information provision. In this context ECoLaSS was represented by GAF and SIRS. The latter presented the poster <i>"Ensuring spatial and temporal consistencies for the time series of the Copernicus Land Monitoring pan-European High Resolution Layers"</i> on the Imperviousness thematic layer.</p> 
03.12.2018	<p>Dec 3, 2018 ~ 1 min read</p> <h2>ECoLaSS Technical Meeting at GAF, Munich</h2> <p>From 19th to 20th November 2018 the members of the ECoLaSS consortium came together at GAF AG in Munich for a very constructive technical meeting. During these two days the representatives of GAF, SIRS, JR, UCL and DLR discussed specific technical and administrative work package contents in order to successfully kick-off the methods and prototype developments for the second project phase.</p>  <p>The ECoLaSS Project team at the Technical Meeting at GAF, Munich (@ GAF).</p>

26.11.2018

Nov 26, 2018 · 1 min read

## ECoLaSS @ 24th MARS conference in Dubrovnik, Croatia

On 22nd November ECoLaSS was presented at the 24th MARS conference which took place in Dubrovnik from 21-22 November. The conference provided a forum to exchange and discuss experiences and recent developments regarding the monitoring approaches within the Integrated Administration and Control System (IACS), focussing on the future objectives of the European Common Agricultural Policy (CAP) and technology developments. In this context Jean-Paul Gachelin from SIRS introduced the audience to the general ECoLaSS project concept and presented the recent outcomes of the agricultural prototypes in the European and African demonstration sites.



23.11.2018

Nov 23, 2018 · 1 min read

## H2020 Project Exchange Meeting with EEEs at EC-REA in Brussels, November 15th, 2018

During an exchange meeting of CLMS-related H2020 projects and Copernicus Entrusted Entities in Brussels on November 15th 2018 the current status and future plans of ECoLaSS were successfully presented together with the three H2020 sister projects Sensagri, MULTIPLY, and EO4AGRI. This was a great opportunity to not only exchange among each other, but to get in contact directly with representatives of DG GROW as well as the European Environmental Agency (EEA) and Joint Research Center (JRC), which represent the European Entrusted Entities, and are as such part as stakeholders to the ECoLaSS project.



26.09.2018

Sep 26, 2018 · 1 min read

## ECoLaSS @ INSPIRE conference in Antwerp, Belgium

From 18-21 September 2018 the [INSPIRE conference](#) took place in Antwerp, Belgium. The conference works as a platform for both the providers of spatial data as well as the end-users to get together, talk about the benefits of the INSPIRE directive by presenting use cases, and discuss potentials and needs. The event comprised workshops, oral presentations, training/side events, plenaries, and poster sessions. ECoLaSS was presented by Omar Ali Eweys in an oral presentation within the DG ENV session "GEOINT for Environmental Compliance Assurance in rural areas/agriculture" focussing specifically on potential future Agriculture and Grassland prototypes.



10.09.2018

## ECoLaSS Periodic Review Meeting at EC-REA in Brussels on September 5th, 2018

Updated: Sep 26, 2018

Beginning of September 2018, the international project team of ECoLaSS presented the progress made during the first 18 month period to the European Commissions Research Executive Agency (REA). Bringing together a group of renowned research and industry partners consisting of GAF (Germany), SIRS (France), UCL (Belgium), Joanneum Research (Austria) and DLR (Germany), ECoLaSS is developing, testing and prototypically demonstrating new technologies and products as candidates for a next-generation Copernicus Land Monitoring Service (CLMS) from 2020 onwards.



26.07.2018

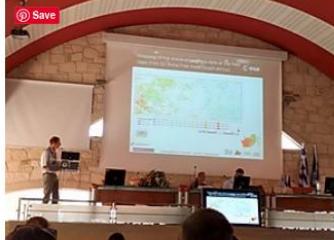
## ECoLaSS @ IGARSS 2018 in Valencia, Spain

This years International Geoscience and Remote Sensing Symposium, IGARSS 2018, took place in Valencia, Spain, on 22 to 27 July, 2018 with its focus on observing, understanding and forecasting the dynamics of the Earth.



The ECoLaSS research on "Crop Mapping for a future Copernicus Agricultural Service" has been presented by Linda Moser from GAF AG.



12.07.2018	<h2>ECoLaSS @ 3rd joint EARSeL LCLU &amp; NASA LCLUC Workshop in Chania, Greece</h2> <p>Updated: Sep 4, 2018</p>  <p>The 3rd joint EARSeL-NASA LC/LUC Workshop took place in Chania, Greece, on 11 and 12 July 2018 in conjunction with the 38th Annual EARSeL Symposium "Earth Observation Supporting Sustainability Research". The workshop focussed on Earth Observation and remote sensing derived products in support of water, food and sustainability research discussing innovative research on the relationships amongst natural processes and social/behavioral processes.</p> <p>The ECoLaSS project was presented by Pierre Defourny from UCL in his keynote presentation as well as Linda Moser from GAF AG with special focus on the next-generatrion Copernicus High Resolution Layer Forest and Agriculture.</p> 
15.02.2018	<h2>ECoLaSS @ Workshop of H2020 MULTIPY Project held February 6th - 8th, 2018 at ESA/ESRIN in Frascati</h2> <p>February 15, 2018</p>  <p>Around 40 participants from research institutes and EO service providers attended the workshop of the <a href="#">H2020 Multiply Project</a>: "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>

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).



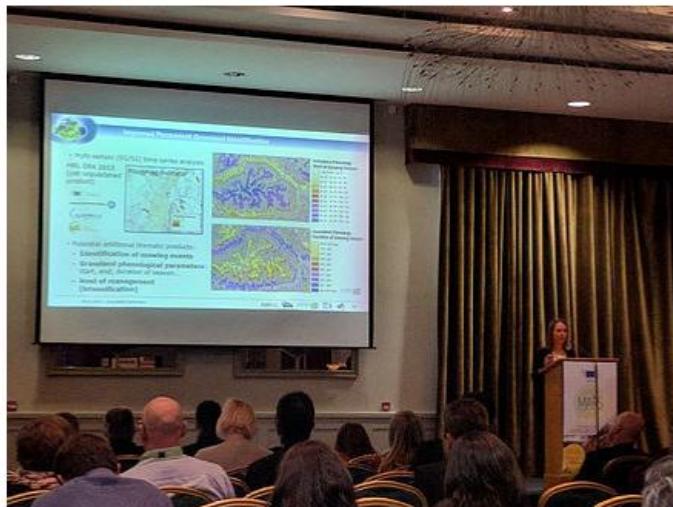
14.12.2017

## 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	<h1>First Review Meeting at EC-REA in Brussels on October 19th, 2017</h1> <p>December 12, 2017</p> <p>The ECoLaSS consortium has successfully completed the first Review Meeting at EC-REA (Research Executive Agency) in Brussels on October 19th, 2017.</p> <p>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.</p>  <p>The ECoLaSS Project team at EC-REA (© A. Metz-Marconcini, DLR).</p>
29.03.2017	<h1>ECoLaSS @ WorldCover 2017 conference</h1> <p>March 29, 2017</p> <p>The ECoLaSS Project concept and mission will be presented at the <b>WorldCover 2017 conference</b> in Frascati (Rome), Italy from 14-16 March 2017: <b>Sentinel-based Evolution of Copernicus Land Services on Continental and Global Scale</b> by Moser, L.<sup>1</sup>, Probeck, M.<sup>1</sup>, Ramminger, G.<sup>1</sup>, Sannier, C.<sup>2</sup>, Desclée B.<sup>2</sup>, Schardt, M.<sup>3</sup>, Gallaun, H.<sup>3</sup>, Deutscher, J.<sup>3</sup>, Defourny, P.<sup>4</sup>, Blaes X.<sup>5</sup>, Klein, I.<sup>**</sup>, Keil, M.<sup>**</sup>, Hirner, A.<sup>**</sup>, and Esch, T.<sup>**</sup></p> <p><sup>1</sup>: GAF AG; <sup>2</sup>: Systèmes d'Information à Référence Spatiale (SIRS) SAS; <sup>3</sup>: JOANNEUM RESEARCH Forschungsgesellschaft mbH; <sup>4</sup>: Université catholique de Louvain (UCL) – Earth and Life Institute (ELI); <sup>5</sup>: German Aerospace Center (DLR) – German Remote Sensing Data Center (DFD)</p> <p>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.</p> 

<p>20.01.2017</p>	<h2>Project Kick-Off</h2> <p>January 20, 2017</p> <p>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 <a href="#">click here</a></p>  <p>The ECoLaSS Project team at the Kick-Off Meeting, Munich (© M. Probeck, GAF).</p>
<p>01.01.2017</p>	<h2>Project Start</h2> <p>January 1, 2017</p>  <p>The official start of the ECoLaSS project, which will have a duration of 36 months, was on 1st January 2017.</p>

## 2.6 Press Releases and News

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](http://www.cordis.europa.eu/research-eu/home_en.html)). The corresponding documents are contained in the folder “ECoLaSS\_Press\_Releases” in the digital appendix to this report (D19.5\_D61.3b\_CollectionOfCommunicationAndDisseminationMaterial\_Issue2\_M36.zip).

**Table 4: Overview of other publications.**

Publication name	Date	Type	Filename
Eomag!	31.01.2017	Press release	ECoLaSS_201701_PressRelease_EOmag.pdf
GAF AG	31.01.2017	Press release	ECoLaSS_201701_PressRelease_GAF.pdf
EARSC	06.02.2017	Press release	ECoLaSS_201702_PressRelease_EARSC.pdf

## 2.7 Flyer

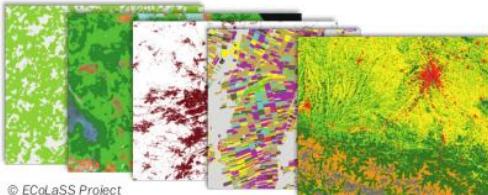
The ECoLaSS project was featured as a show-case example advertising the MUNDI DIAS service. It is included in the digital appendix under [ECoLaSS\\_Flyer/ECoLaSS\\_2019\\_Flyer\\_GAF.pdf](#). An excerpt showing the ECoLaSS section is displayed in Figure 7.

**ECoLaSS - Evolution of Copernicus Land Services Based on Sentinel Data**

The Horizon 2020 project **ECoLaSS** aims at developing innovative methods, algorithms and prototypes for improving and creating future pre-operational Copernicus Land services from 2020 onwards, making full use of dense Sentinel time series of optical (S-2, S-3) and Synthetic Aperture Radar (SAR) data (S-1).

**ECoLaSS will involve methodological developments such as:**

- (i) Sentinel-1/-2/-3 time series integration,
- (ii) time series pre-processing methods,
- (iii) thematic classification and
- (iv) change detection from time series analysis, and
- (v) the development of an incremental update methodology for the Copernicus Land High Resolution Layers (HRLs).



© ECoLaSS Project

These methods will be applied on test and larger **demonstration sites** representing various bio-geographic regions in both Europe and Africa, and the following **innovative prototypes** will be implemented:

- indicators and variables from high spatial and temporal resolution data;
- incremental update strategies for the main pan-European products (i.e. the HRLs);
- improved permanent grassland identification;
- crop area and crop status/parameter monitoring;
- further innovative LC/LU products.

ECoLaSS will make use of not only the data provided by the Mundi Web Services but also cloud services data for testing demonstration cases with regard to their future implementation.

 European Environment Agency  Copernicus  Land Monitoring  
Grant Agreement No. 730008

**Figure 7 Excerpt from MUNDI flyer featuring the ECoLaSS project.**

## Conclusions and Outlook

This deliverable D19.5: “D61.3b: Collection of Communication and Dissemination Material” contains a digital collection of all dissemination and communication materials produced during the entire project duration, which is according to the Dissemination and Communication material planned in the D19.3: “D61.2b - Communication, Dissemination and Exploitation Plan” [AD06]. This collection comprises all conference papers and proceedings, conference posters, public presentation slides, movies, articles prepared for the project webpage, social media outreach, and articles about ECoLaSS on other relevant websites and news portals.

The ECoLaSS project consortium has gone to great lengths in disseminating the project findings targeted to very diverse audiences ranging from the interested public, over other project consortia to expert users. While doing so it has produced a large corpus of outreach materials listed in and appended to this deliverable. Going beyond the project duration, the consortium will continue maintaining, and if called-for updating, the project website for a longer period of time.