

IAF EARTH OBSERVATION SYMPOSIUM (B1)
Future Earth Observation Systems (2)

Author: Mr. Sebastien Tailhades
OHB System, Germany, sebastien.tailhades@ohb.de

Mrs. Maria Lucia Tampellini
OHB Italia SpA, Italy, ltampellini@cgspace.it

Dr. Volker Tesmer
OHB System, Germany, volker.tesmer@ohb.de

Mr. Robert Hook
OHB System AG, Germany, robert.hook@ohb.de

Dr. Christoph Bartscher
OHB System AG - Munich, Germany, christoph.bartscher@kayser-threde.com

Mr. Fabio Tominetti
OHB Italia SpA, Italy, fabio.tominetti@ohb-italia.it

Mrs. Valerie Fernandez
ESA, The Netherlands, valerie.fernandez@esa.int

Dr. Yasjka Meijer
ESA - European Space Agency, The Netherlands, Yasjka.Meijer@esa.int

Dr. Jens Nieke
ESA - European Space Agency, The Netherlands, jens.nieke@esa.int

Dr. Michael Rast
ESA, The Netherlands, michael.rast@esa.int

Mr. Claudio Galeazzi
ESA, The Netherlands, claudio.galeazzi@esa.int

Dr. Craig Donlon
European Space Agency (ESA), The Netherlands, craig.donlon@esa.int

THE COPERNICUS EXPANSION HPCM AND OHB CONTRIBUTION - OVERVIEW AND
CURRENT STATUS.**Abstract**

Copernicus, the European Union's programme for observing and monitoring the Earth, represents, beside Galileo and EGNOS, one of the most successful space programs coordinated and managed by the European Commission in partnership with ESA, the member states and Agencies. Copernicus relies on global data acquired from satellites as well as ground-based, airborne and sea borne systems that generate information freely made available to service providers, public authorities and international organizations to improve the quality of life of citizens in Europe and in the world. The six services offered by Copernicus cover the following fields: Atmosphere, Marine, Land, Climate Change, Security and Emergency. 2020 was an important milestone for the Copernicus Program since it marks the first concretization of the Copernicus Evolution: major parts of the European space industry worked on delivering the bids for the B2CD implementation of the 6 expansion missions. OHB was awarded major contracts for the CO2 Monitoring Mission (CO2M), the Copernicus Hyperspectral Imaging Mission for the Environment (CHIME) and the Copernicus Imaging Microwave Radiometer mission (CIMR). The aim of the paper will

be to describe these missions and their potential contributions to the overall Copernicus services. The paper will describe the technical solution proposed to fulfill the mission objectives with a view on the key features of each solution.