



From:

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To :

Dr. Peter Bauer

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Reference: ExtremeEarth Flagship proposal / Coordination and support actions / 1st stage of a two-stage submission procedure for FETFLAG-01-2018

Subject: Endorsement Letter

Dear Dr. Peter Bauer,

*As coordinator of the European Aerosol Research Lidar Network (EARLINET), co-coordinator of the GAW Aerosol Observation Lidar Network (GALION) and the ACTRIS-2 EU Project (Aerosols, Clouds and Trace gases Research Infrastructure), it is a pleasure to write you regarding ExtremeEarth Flagship proposal, 1st stage of a two-stage submission procedure for FETFLAG-01-2018.*

*EARLINET is the European coordinated lidar network, established in 2000, measuring aerosol vertical profiles with the goal of creating a quantitative, comprehensive, and statistically significant database for the horizontal, vertical, and temporal distribution of aerosols on a continental scale ([www.earlinet.org](http://www.earlinet.org)).*

*GALION is the lidar observation network of the WMO (World Meteorological Organization) designed with the aim to provide the vertical component of the aerosol distribution through advanced laser remote sensing in a network of ground-based stations globally distributed.*

*ACTRIS is the European Research Infrastructure integrating state-of-the-art European ground-based stations for long term observations of aerosols, clouds and short lived gases. ACTRIS has the essential role to support building of new knowledge as well as policy issues on climate change, air quality, and long-range transports of pollutants. ACTRIS is funded by the European project ACTRIS-2 (Aerosols, Clouds, and trace gases Research Infrastructure), supported by the European Commission Horizon 2020 Research and Innovation Framework Programme (H2020-INFRAIA-2014-2015, GA No 654109) ([www.actris.eu](http://www.actris.eu)). In 2016 the ACTRIS research infrastructure has been included in the ESFRI roadmap.*



*I want to provide also my endorsement with respect to a number of international initiatives and networks, I'm involved in, which can strongly benefit from the funding of this proposal. These include global networks like: GRUAN, The Global Climate Observing System (GCOS) Reference Upper-Air Network measuring essential climate variables above Earth's surface, the H2020 projects like EUNADICS-AV (European Natural Airborne Disaster Information and Coordination System for Aviation) where several European organizations work together to close the significant gap in European-wide data and information availability during airborne hazards; a number of activities supported by the European Space Agency (ESA) for the design and validation of EarthCARE and Sentinel-5P upcoming satellite missions; the large involvement within the Copernicus Climate Changes Service (C3S) with the aim to facilitate the access to in-situ harmonized reference and baseline observations for several climate variables.*

*Therefore, I am fully supportive of the ExtremeEarth project and I delegate endorsements to individuals who will reflect the views and requirements of scientific, technological and service oriented communities that are included in the project.*

*This endorsement does not imply any legal or financial commitments towards the ExtremeEarth project. Support will imply that statements and logos of supporters may be shown on the ExtremeEarth website.*

Yours sincerely,

Gelsomina Pappalardo

CNR Research Director