EuroMoonMars programme & field campaigns

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EuroMoonMars is an ILEWG programme following up ICEUM declarations as a collaboration between ILEWG, space agencies, academia, universities and research institutions and industries. The ILEWG EuroMoonMars programme includes research activities for data analysis, instruments tests and development, field tests in MoonMars analogue, pilot projects, training and hands-on workshops, and outreach activities. EuroMoonMars includes a programme of grants for Young Professional Researchers. EuroMoonMars field campaigns have been organised in specific locations of technical, scientific and exploration interest. Field tests have been conducted in ESTEC, EAC, at Utah MDRS station, Eifel, Rio Tinto, Iceland, La Reunion, LunAres base at Pila Poland, and HiSEas base in Hawaii. These were organised by ILEWG in partnership with ESTEC, VU Amsterdam, NASA Ames, GWU in Utah MDRS (EuroGeoMars 2009, and then yearly for EuroMoonMars 2010-2013). Other EuroMoonMars analogue field campaigns using selected instruments from ExoGeoLab suite were conducted in other MoonMars extreme analogues such as Eifel volcano, Rio Tinto, Iceland, La Reunion, and HiSEAS base in Hawaii.

EuroMoonMars field campaigns started with \textbf{EuroGeoMars2009} (Utah MDRS, 24 Jan-1 Mar 2009) with ILEWG, ESA ESTEC, NASA Ames, VU Amsterdam, GWU and continued with yearly EuroMoonMars Field campaigns in Utah (2010-2014), and in other Moon-Mars terrestrial analogues (Eifel volcanic area, Rio Tinto, Iceland, La Reunion, LunAres base in Poland, and HiSEAS base in Hawaii).

\textbf{EMMIHS campaigns (EuroMoonMars-IMA International Moonbase Alliance-HiSEAS)}: EuroMoonMars 2018-19 supported field campaigns at IMA HISEAS base on Mauna Loa volcano in Hawaii. The Hawaii - Space Exploration Analog and Simulation (HI-SEAS) habitat is located at 8,200' (2,500 meters) in elevation on the largest mountain in the world, Mauna Loa, on the Big Island of Hawaii. As of 2018, the International Moonbase Alliance (IMA), an organization dedicated to building sustainable settlements on the Moon, has been organising regular simulated missions to the Moon, Mars or other planetary bodies at HI-SEAS. In 2019, the EuroMoonMars campaigns were launched at HI-SEAS. Six scientists, engineers, journalists and photographers spent two weeks at the HI-SEAS station performing research relevant to both the Moon and Mars there. Furthermore, the research and technological experiments conducted at HI-SEAS are going to be used to help build a Moonbase in Hawaii, and ultimately to create an actual Moonbase on the Moon, as part of IMA's major goals. The campaigns were remotely supported from Blue Planet Lab (support@BluePlanetIMA: Ponthieux, Cox, Rogers, Foing et al) & ESTEC/ILEWG/VU.
Amsterdam (Ageli, Foing, Beniest, Sitnikova, Preusterink et al.) and had analog astronaut crew:

Other EuroMoonMars 2020 campaigns are planned in ESTEC, Lunares Poland, Iceland, Etna (ARCHES with DLR/ESA) & IMA HISEAS.

ILEWG EuroMoonMars Team:


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