



## 2° Consultation Workshop of National Scientific Community for a new EO Mission Study in the Medium-to-Long Infrared (MWIR-LWIR) spectral range

Agenzia Spaziale Italiana  
Sala Cassini  
June,10-11, 2019

### Agenda

<b>10 June 2019</b>	
<b>10:00-10:10</b>	<b>Welcome and Workshop Objectives - A. Coletta, ASI</b>
<b>10:10-12:00</b>	<b>Introductive Session - M.F. Buongiorno, S. Zoffoli</b>
10:10-10:40	Science Requirements for a TIR Free-Flyer Mission – S. Hook, JPL/NASA
10:40-11:00	Candidate Architecture for a TIR Free-Flyer Mission – R. Basilio, JPL/NASA
11:00-11:15	ASI/JPL joint study for mission in the MWIR/LWIR spectral range - S. Zoffoli, ASI
11:15-11:30	Science objectives and requirements – M.F. Buongiorno, INGV
11:30-11:45	HRIC (the ESA mission BepiColombo High Resolution Camera) instrument as coupled VIS-NIR camera for the MWIR-LWIR mission – V. Della Corte, INAF
11:45-12:00	First ASI-INGV Workshop: Summary and Results – S. Amici, INGV
<b>12:00-12:30</b>	<b>Discussion</b>
<b>12:30-14:00</b>	<b>LUNCH</b>
<b>14:00-15:40</b>	<b>Temperature and Emissivity Separation - V. Raimondi</b>
	Survey of MAXENTES algorithm capabilities applied to airborne IR images – D. Guzzi, IFAC-CNR
	Optimal spectral bands selection for LST and Water Vapour Content retrieval – V. Ionca, CNR-IMAA
	<b>Agriculture and Soil - C. Notarnicola</b>
	Application of thermal remote sensing data in agriculture over the complex structure of the Alpine region – P. Bartkowiak, EURAC / Univ. Milano-Bicocca

	Overview on the 2018 FLEX campaign- <i>R. Colombo, Univ. Milano-Bicocca</i>
	Application of thermal remote sensing data for soils properties: Grosseto 2018 test case - <i>S. Pignatti, CNR-IMAA</i>
<b>15:40-16:00</b>	<b>BREAK</b>
<b>16:00-16:40</b>	
	<b>Urban and Coastal areas – G. Corsini</b>
	Monitoring urban areas in an integrated matter using thermal data sets – <i>P. Gamba, Univ. Pavia</i>
	Sea Surface Temperature and Air-Sea Interaction in the Mediterranean Region. The Lampedusa observatory: An unique opportunity for high resolution SST validations and heat fluxes assessment – <i>S. Marullo, ENEA</i>
<b>16:40-17:30</b>	<b>Discussion</b>
<b>11 June 2019</b>	
<b>10:00-10:30</b>	Land Surface Temperature Monitoring (LSTM) - A Copernicus Candidate Mission – <i>B. Koetz, ESA</i>
<b>10:30-12:00</b>	<b>HTE &amp; Geophysical phenomena - C. Spinetti</b>
	Exploring ECOSTRESS data for wildfire characterization – <i>S. Amici, INGV</i>
	Monitoring lava discharge rates during volcanic eruptions by means of MWIR satellite data – <i>D. Coppola, Univ. Torino</i>
	Monitoring lava flow hazards through a multiplicity of satellite remote sensing data: Etna eruptions across 2018 – <i>G. Ganci, INGV</i>
	Volcanic gases analysis by means of aircraft and satellite data at high spatial resolution in the infrared spectral region – <i>V. Romaniello, C. Spinetti, M.Silvestri, M.F. Buongiorno INGV</i>
<b>12:00-12:30</b>	<b>Discussion</b>
<b>12:30-14:00</b>	<b>LUNCH</b>
<b>14:00-15:00</b>	<b>Conclusive Remarks and End of the Workshop</b>