



ESA-JAXA Pre-Launch EarthCARE Science and Validation Workshop 13 – 17 November 2023 | ESA-ESRIN, Frascati (Rome), Italy

EVID07: LALINET EarthCARE CAL/VAI

Eduardo Landulfo, Fabio Lopes, Boris Barja, Juan Carlos Antuña-Marrero, Pablo Ristori, Ricardo Forno, Antonieta Silva Riquelme, Maria Paulete Martins, Alexandre Correia, Alexandre Cacheffo, Alexandre Yoshida, Damaris Kirsch, João Basso, Jonatan Silva, Humberto Barbosa, Pablo Ristori, Alvaro Bastidas, Judith Hoelzmann, Gregori Moreira





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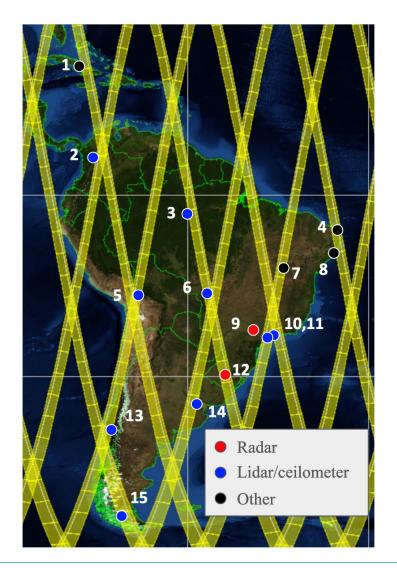
LALINET is a leading network in quantitative aerosol profiling performing a schedule of routine measurements and presently consists of **09** stations distributed over South America.



Map number	Site name	Latitude (deg N)	Longitude (deg E)	Altitude (m asl)	Type of Instrument
1	Camaguey	21.400	-77.900	122	
2	Medellin	6.260	-75.580	1200	Lidar, sunphotometer
3	Manaus	-3.070	-60.010	30	Micropulse lidar
4	Natal	-5.813	-35.255	31	Brewer and Dobson, Ozonesonde, Meteorological Station, GUV
5	La Paz	-38.740	-72.620	3420	Lidar, sunphotometer
6	Pantanal	-16.254	-56.670	188	Lidar-t Sunphotometer Nephelometer, GHG, wind
7	Barreiras	-12.148	-44.019	450	
8	Maceio	-9.665	-35.735	8	
9	Bauru	-22.340	-49.064	617	Radar
10	São Paulo	-23.560	-46.740	760	Lidar 3, Pyranometer, Skycamera, sur photometer
11	São José dos Campos	-23.179	-45.887	600	Lidar for Na/K, Brewer
12	Santa Maria	-29.728	-53.755	81	Cloud Radar X/Ka Band, Brewer
13	Temuco	-16.538	-68.070	1500	Lidar
14	Buenos Aires	-34.564	-58.417	10	Lidar, Sunphotometer
15	Punta Arenas	-53.134	-70.880	10	Lidar, pyranometers Brewer



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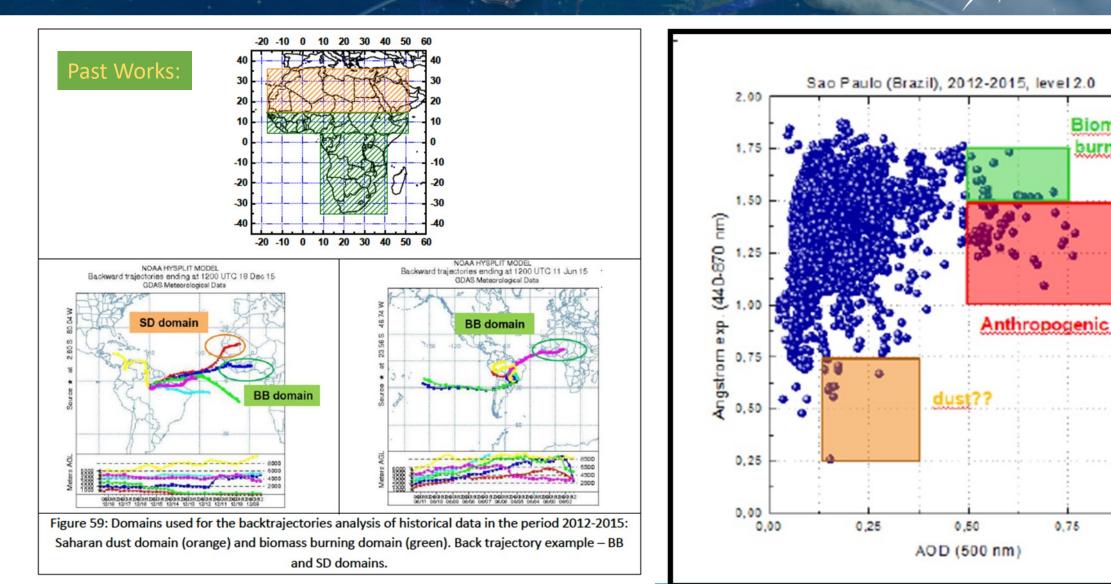
The main objectives of this proposal are:

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1) Validation of EARTHCARE products of aerosol and cloud profiles of backscatter, extinction and lidar-ratio (L2)

2) Assessment of spatio-temporal representativeness of EarthCare aerosol and cloud products.



LotAm

Lidar

Network

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1.00

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Biomass

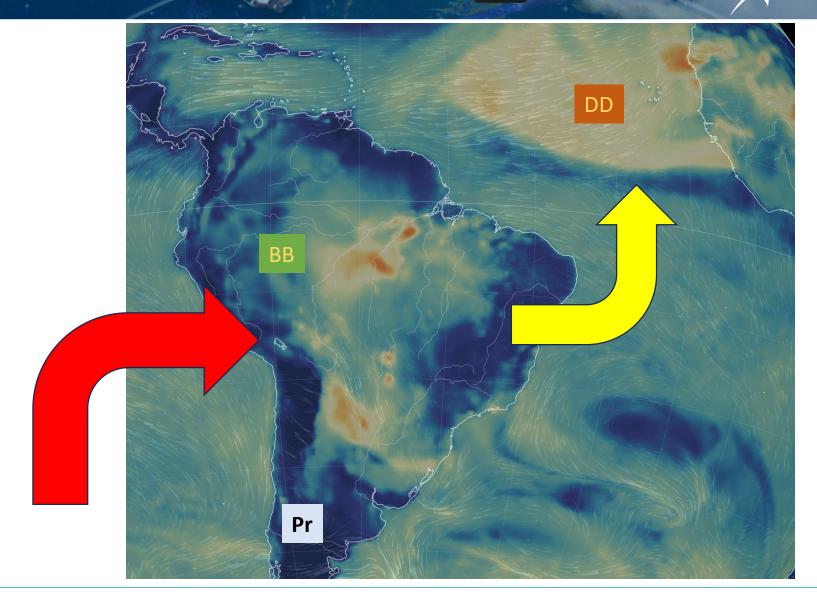
burning

LAXA

Past Works:



JAXA Cesa

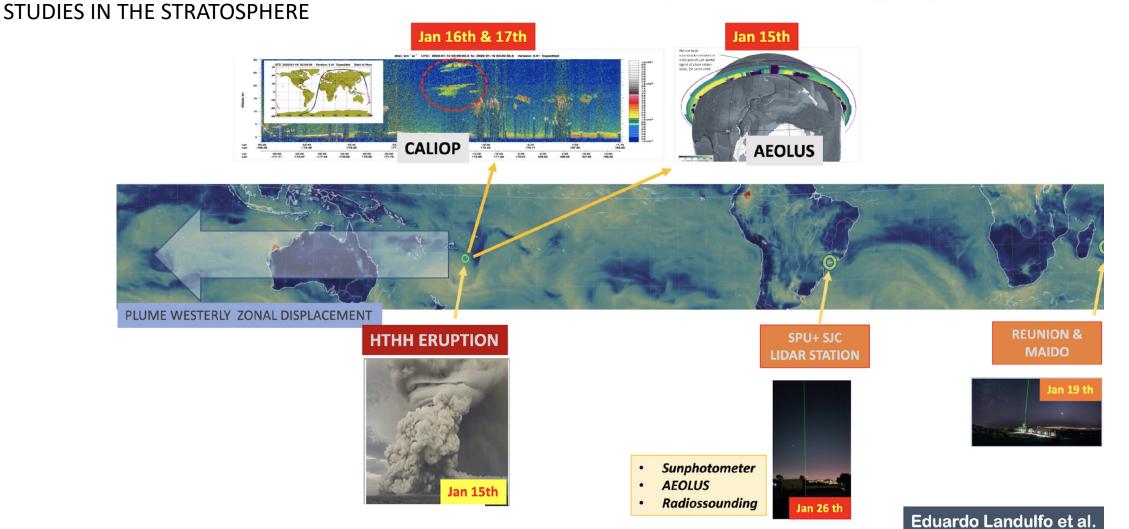


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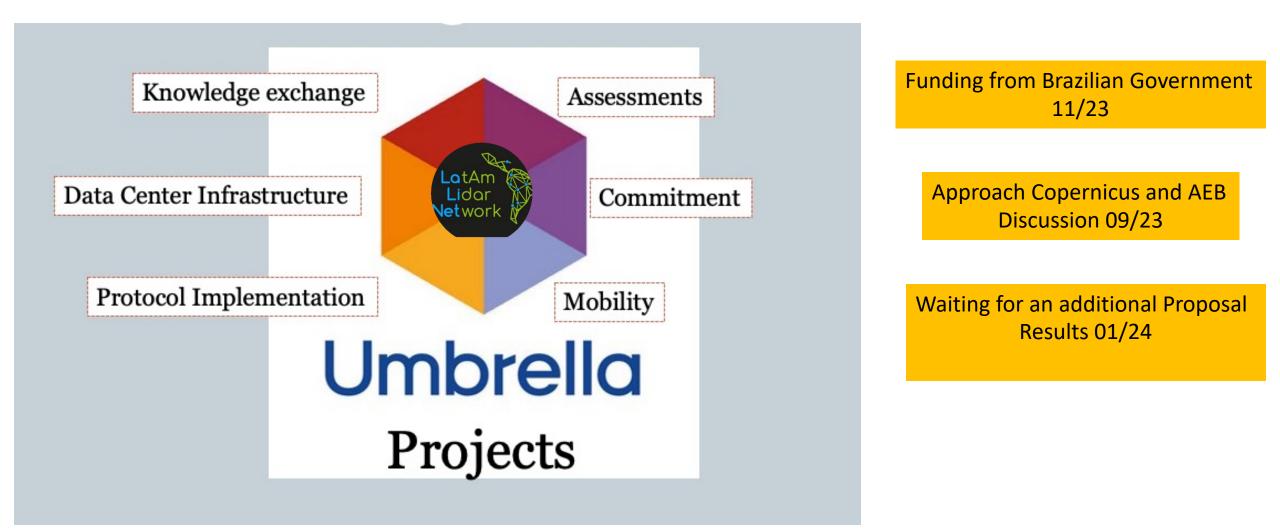
Early Observations of the Hunga-Tonga Plume from Brazil



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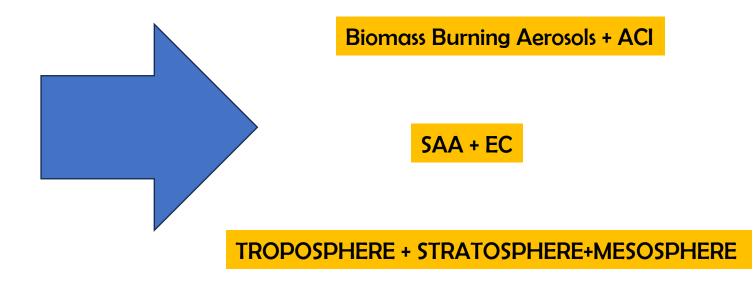




Present Approved Proposal

Working Packages

- 1. Student Training ACTRIS-ERIC
- 2. QC/QA @ LALINET sites
- 3. Coordinated Campaigns*
- 4. SCC x LALINET Algorithms
- 5. 2025 An Harmonization Campaign with EU partnership







07 thru 12 April 2024, São Paulo

School of Lidars Scientific Sessions Bridge Meeting between Lalinet and LifeWatch and ACTRIS

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THANK YOU

