

# LALINET NETWORK STATUS



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# lalinet



## LALINET

Latin American Lidar Network



Main  
LALINET

Network

The Latin America Lidar Network (LALINET a.k.a ALINE) is a Latin American coordinated lidar network measuring aerosol backscatter coefficient and aerosol extinction profiles for climatological studies of the aerosol distribution over Latin America, as well as other atmospheric species such as ozone and water vapor. This federative lidar network aims to establish a consistent and statistically sound database for enhancement of the understanding of the aerosol distribution over the continent and its direct and indirect influence on climate.



# lalinnet-organization



**Global Atmosphere Watch**



**GALION: The GAW Aerosol Lidar Observation Network.**

AD-Net

CREST

EARLINET

CORALNET

MPLNET

**LALINET**



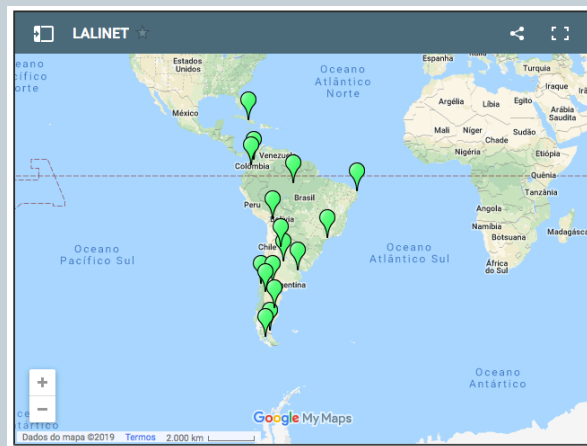
# lalinet-organization



- Consolidate the measurement and data acquisition protocols
- Establish a QA/QC routine among all stations
- Improve and establish an unified data analysis routine common to all stations, e.g., Single Calculus Chain
- Create a scientifically significant distributed database, e.g., lidar ratio, particle extinction, backscatter, angstrom exponents and particle depol. regional values that can be assimilated to air quality & forecast models and validation missions.



# Lalinet-stations



# lalinet - stations

ST.	ID	LAT LON ALT(m)	Detected Channels (nm)
Buenos Aires	VMA	-34.56° -58.51° 10	1064, 532 <sup>P</sup> & 355 <sup>P</sup>
Buenos Aires	SMN	-34.56° -58.42° 10	1064, 607, 532 <sup>P</sup> , 387 & 355 <sup>P</sup>
Neuquen	NQN	-38.95° -68.14° 266	1064, 532 <sup>P</sup> , 266 & 355 <sup>P</sup>
Bari-loche	BRC	-41.15° 71.16° 837	1064, 607, 532, 387 & 355
Com-modoro	CDR	-45.79° -67.46° 48	1064, 532 & 355
Rio Gallegos	RGL	-51.60° -69.32° 20	355, 308 & 355
Rio Gallegos II	SRG	-51.61° -69.31° 17	1064, 607, 532 <sup>P</sup> , 387 & 355 <sup>P</sup>
Cordoba - HRSL	COR	-31.68° -63.87° 322	1064, 607, 532 <sup>P</sup> , 408, 387 & 355 <sup>P</sup>
Punta Arenas	PAR	-53.22° -70.88° 15	1064, 607, 532 <sup>P</sup> , 408, 387 & 355 <sup>P</sup>
Tucuman	TUC	-26.79° -65.21° 485	1064, 607, 532 <sup>P</sup> , 408, 387 & 355 <sup>P</sup>

ST.	ID	LAT LON ALT(m)	Detected Channels (nm)
S. Paulo	SPU	-23.56° -46.74° 740	1064, 607, 532, 531, 408, 387 & 355
S. Paulo	SPT	Trans- portable	607, 532
Manaus	MAO	-02.89° -59.97° 30	408, 387, 355
Natal	NAT	-05.82° -35.20° 12	1064, 532 <sup>P</sup> & 355 <sup>P</sup>
Temuco	TMU	-38.73° -72.60° 108	532
Medellin	MED	+06.22° -75.57° 1545	1064, 532 & 355
Medellin CIBioFi	MEC	+03.37° -76.53° 982	1064, 532 & 355
Medellin SIATA	MES	+03.37° -76.53° 1538	355 <sup>P</sup>
La Paz	LPZ	16.53° 72.07° 3500	532