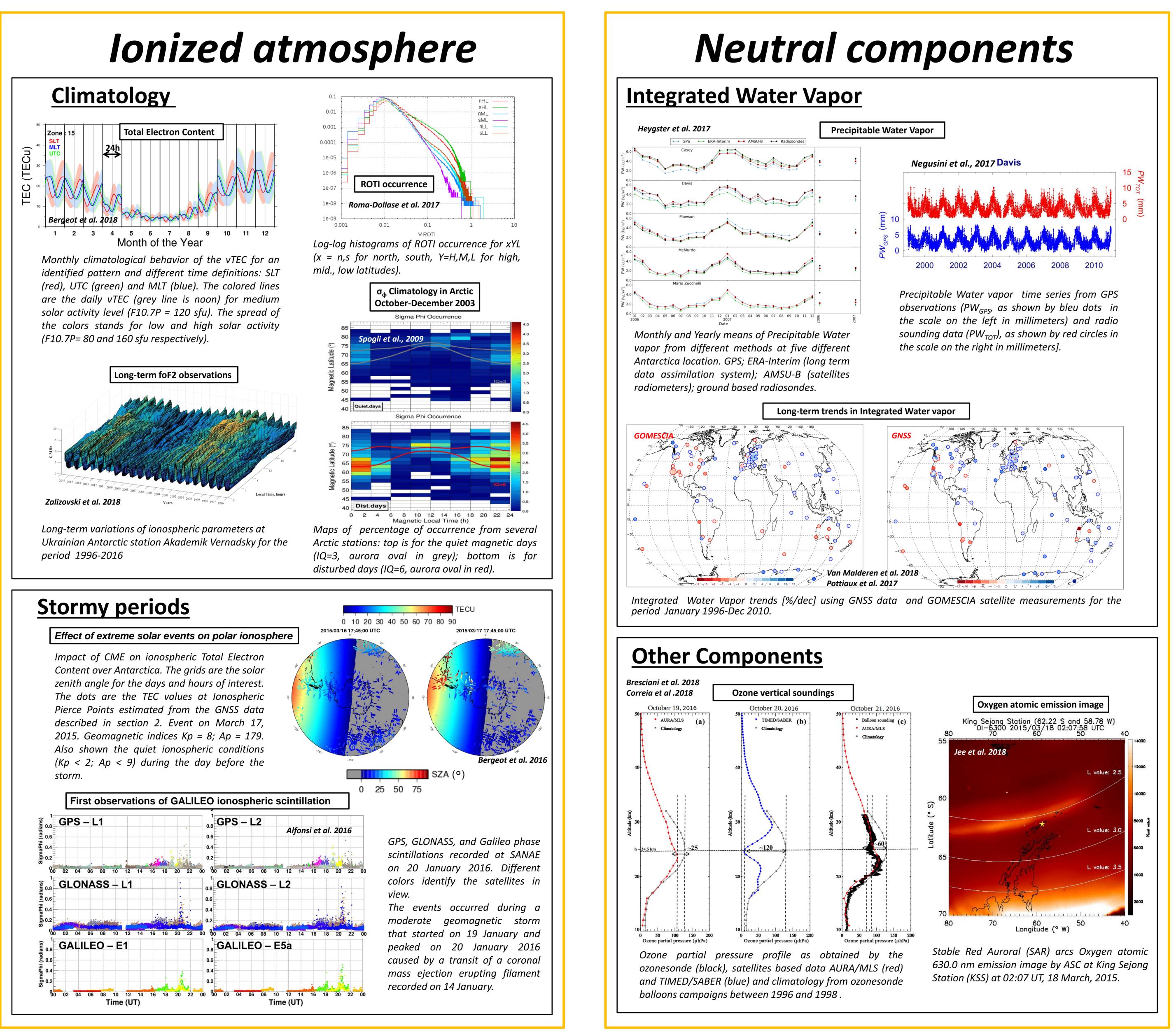
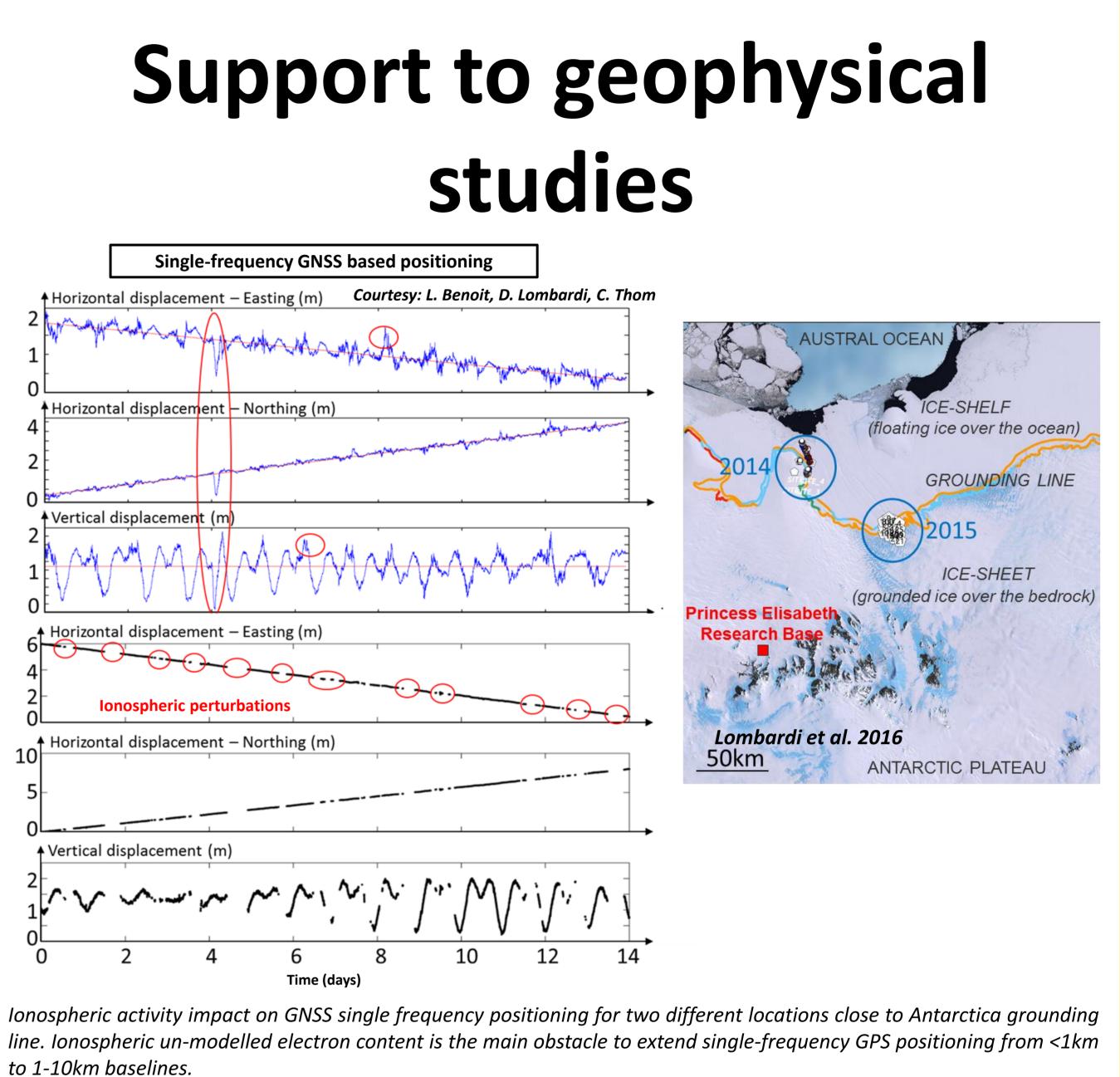
RESOURCE: an International Initiative for Radio Sciences Research on Antarctic Atmosphere SM51C-2760 Principal Investigators : N. Bergeot (ROB-STCE) & L. Alfonsi (INGV)

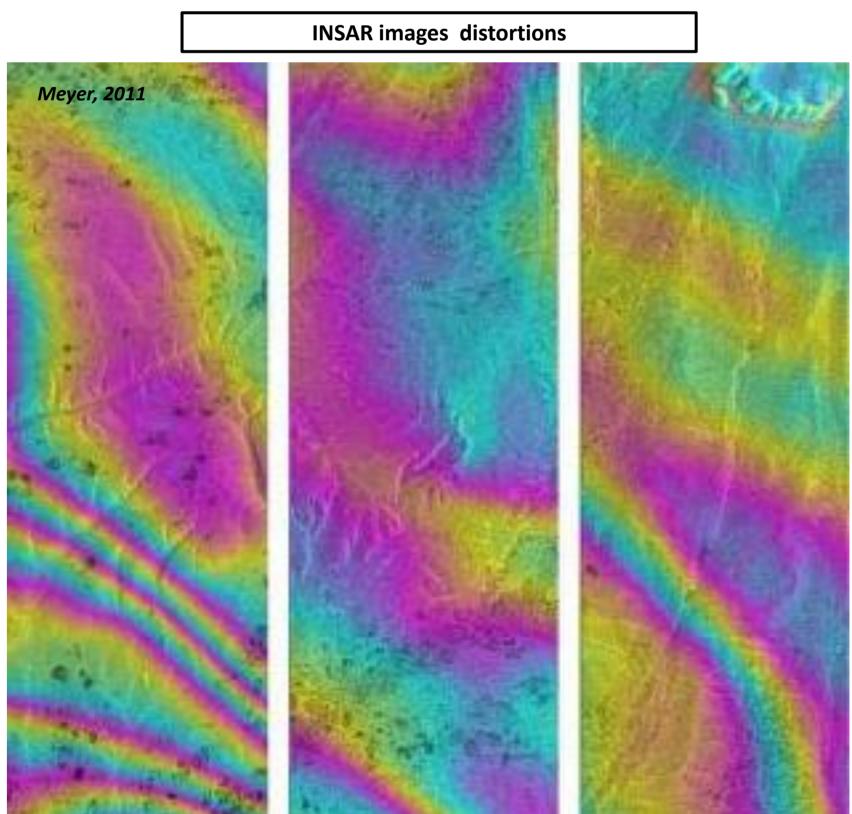


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RESOURCE (Radio Sciences Research on AntarCtic AtmosphEre) is a new proposed Scientific Research Program (SRP) regrouping Physical and Geoscience Science Groups from SCAR (Scientific Committee on Antarctic Research). RESOURCE aims to establish and reinforce the link between the communities that investigate the polar atmosphere in the Northern and Southern Hemispheres with the users on the field such as, e.g., glaciologist, astrophysicist or polar base managers.







Examples of ionospheric phase screens in L-band InSAR data observed by the ALOS PALSAR system in the Arctic (Alaska). Ionospheric propagation effects cause significant distortions in the data of low-frequency synthetic aperture radar (SAR) systems, whose severity is increasing with decreasing system frequency. The magnitude and pattern of ionospheric phase screens depend on the strength of the ionospheric turbulence signal and on the type of ionospheric instability during the time of image acquisition.



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