

Major upgrade at IS41 Villa Florida, Paraguay

After 15 years of operation, IMS infrasound station IS41 Villa Florida, Paraguay, had to face several technical issues due to equipment aging and infrastructure deterioration. In order to mitigate those problems major upgrade of the station took place in June 2018. At each remote element the power supply and lightning protection systems were improved. The wind-noise reducing system has been replaced, MB3 microbarometers and Guralp DM-24 were deployed. Reference pressure sensors were installed in parallel with the operational MB3 sensors, allowing continuous passive on-site calibration at each site. Net improvement was observed in the data quality, and continuous, authenticated data are received at the IDC. The upgrade allowed also much more reliable maintenance, remote monitoring and efficient troubleshooting of the station.

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