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detection of the lunch and the Re-entry of PLSV-C32 and PSLV-C14

International Monitoring System (IMS) Infrasound network is a state of art network of sensors that records several acoustics sources, Waves generated by anthropogenic atmospheric source ranging from regular air traffic, subsonic signals, rocket lunch are usually recorded by the IMS Infrasound stations. Interestingly Rocket lunch and re-entry acoustic signatures are recorded by IMS. These recording can be used to track the rocket and confirm the success of the mission. Many cases are recorded in IMS infrasound network, in this work two events is investigated: The Polar Satellite Launch Vehicle C14 (PSLV-C14) which was launched in September 23, 2009 and the PLSV-C32 by the Indian Space Research Organization (ISRO) in February 15, 2017 to deliver 114 satellite. The nearby infrasound stations are analyzed to detect the different phases of the lunching and track the azimuth of the rocket.

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