

analysis of Japanese rocket launching events using I30JP observation data

Japan's satellite and probe carrying rocket (H-IIA, H-IIB and Epsilon) have been launched by JAXA (Japan Aerospace Exploration Agency) at Tanegashima or Uchinoura Space Center in southern Japan. Multiple infrasonic signals generated by these launched rockets are detected at I30JP from 2005, when the operation started. We have been organizing the data and the knowledge by accumulating the analysis results. Flight path of rockets are mainly categorized two directions, eastward and southward. For instance, when rockets fly eastward, infrasonic signals derived from the liftoff, detachment of the solid rocket motors and payload fairing could be discriminated by the difference of back-azimuth calculated from I30JP array data. Moreover, the signal from payload fairing drop tends to be detected firstly because the rocket speed is quite faster than infrasound propagation. We would deliver the poster presentation about our analysis stored since I30JP operation in 2005 and the past records of Japanese rockets.

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