

## **the Fireballs Wave Parameters and Location Using the IMS Infrasound Stations and IDC Products vs. NASA Record.**

According to NASA agency there are 789 fireballs were recorded from 1988 to 2019, there are two fireballs recorded as greatest fireballs in the world (greater than 100 kilotons of TNT) and detected by the International Monitoring System (IMS). One of these largest fireballs recorded over the RUSSIA On February 15, 2013 with 440 kilotons of TNT with extreme range reached to 20 IMS infrasound stations, and the second one recorded over Bering Sea on December 18, 2018 with 173 KT of TNT with extreme range reached to 19 IMS infrasound stations. The IMS data and IDC product were used to analyze the infrasound waveform by GEOTOOL to estimate the wave parameters and the events location then compared the result with NASA record.

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