

Data S1. Aberdeen A1.

(separate file)

Filename: S1_Aberdeen_1_calibrate_220211.csv

Digitized (calibrated) waveform of the A1 arrival at the Aberdeen station for the 1883 eruption of Krakatau from (12). Used in Fig. 2A, Fig. S8A.

Column 1: Time [hours since 27 August 1883 at 00 UTC]

Column 2: Pressure Amplitude, detrended [inch mercury]

Data S2. Aberdeen A2.

(separate file)

Filename: S2_Aberdeen_2_calibrate_220211

Digitized (calibrated) waveform of the A2 arrival at the Aberdeen station for the 1883 eruption of Krakatau from (12). Used in Fig. S8C.

Column 1: Time [hours since 27 August 1883 at 00 UTC]

Column 2: Pressure Amplitude, detrended [inch mercury]

Data S3. South Georgia A1.

(separate file)

Filename: S3_S-Georgia_1.csv

Digitized (uncalibrated) waveform of the A1 arrival at the South Georgia station for the 1883 eruption of Krakatau from (12). Both time and amplitude range from 0 to 1. Used in Fig. S8E.

Column 1: Time [arbitrary]

Column 2: Pressure Amplitude [arbitrary]

Data S4. King Edward Point A1.

(separate file)

Filename: S4_KEP_trim.csv

Data (1 min data at 0.1hPa resolution) courtesy of the British Antarctic Survey (BAS). Location is King Edward Point, South Georgia. Used in Fig. S8F.

Column 1: Year

Column 2: Month

Column 3: Day

Column 4: Hour

Column 5: Minute

Column 6: Pressure [hPa]

Data S5. REB Association

(separate file)

Filename: S5_Hunga_REB_20220115_041459_57association.xlsx

Column 1: Station Name

Column 2: Arid

Column 3: Distance [km]

Column 4: Phase

Column 5: Arrival Time [DD/MM/YYYY HH:MM:ss]

Column 6: Backazimuth [degrees]

Data S6. REB Infrasound

(separate file)

Filename: S6_Hunga_REB_20220115_043007_53infra.xlsx

Column 1: Station Name

Column 2: Arid

Column 3: Distance [km]

Column 4: Phase

Column 5: Arrival Time [MM/DD/YY HH:MM:ss]

Column 6: Backazimuth [degrees]

Column 7: Trace Velocity [m/s]

Column 8: Amplitude [Pa]

Data S7. Lamb wave peak to peak pressure amplitude measurements for the 2022 Hunga eruption [this study] as displayed in Fig. 2F

(separate file)

Filename: S7_Hunga2022_LambWaves_Peak_to_Peak_Table.csv

Column 1: Network

Column 2: Station

Column 3: Distance from Hunga volcano [km]

Column 4: Lamb-wave peak-to-peak pressure [Pa]

Data S8. Lamb wave arrival picks for GSN and IMS stations for the 2022 Hunga eruption [this study] as displayed in Fig. 2A. The origin time used is 04:14:45 UTC, 15 January 2022

(separate file)

Filename: S8_ArrivalTimes_Hunga_GSN_IMS.csv

Column 1: Station

Column 2: Distance from Hunga volcano [km]

Column 3: Arrival times (hour) for seven passages as displayed in Fig. 2A