



NSF GK-12 Graduate Fellows Program
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Modeling Earthquake Data

Reference Material to Accompany Activity

Excel Spreadsheets

by

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Earthquake Data Table: West Coast of South America

Station	Latitude (S)	Longitude (W)	Depth (Km)	Magnitude
1	19.8	66.6	259	4.6
2	27.8	63.2	513	5.1
3	26.2	63.3	550	4.8
4	31.2	71.5	33	5
5	23.2	66.4	200	4.8
6	23.5	71.0	25	5
7	24.5	70.8	33	5
8	21.3	68.2	122	4.7
9	23.6	70.0	42	5
10	23.5	70.5	50	NA
11	22.9	68.3	115	4.8
12	34.1	69.8	45	NA
13	22.3	66.1	274	5
14	23.2	69.3	67	4.9
15	22.5	67.4	168	4.5
16	19.5	65.8	305	4.5
17	21.4	68.1	123	5.1
18	27.0	63.0	500	4.9
19	27.2	67.1	155	4.7
20	20.4	66.0	300	4.5
21	25.6	66.0	385	5
22	22.2	64.5	440	4.8

Data from <http://www.geosociety.org/educate/LessonPlans/RealEvidence-SubductingPlate.pdf>



Earthquake Data Table: Aleutian Islands

Station	Latitude (N)	Longitude (W)	Depth (Km)	Magnitude
1	63.5	147.1	5	2.9
2	62.8	149.7	78	NA
3	61.2	149.5	33	3.3
4	51.2	176.4	33	4.6
5	53.7	163.8	33	4.2
6	52.8	174.4	203	4.3
7	61.0	151.5	69	3.3
8	63.1	151.0	131	3.7
9	51.7	169.9	33	3.8
10	60.4	152.4	92	NA
11	63.2	144.3	8	3.1
12	63.6	147.3	0	2.9
13	51.5	171.9	33	4.3
14	63.6	147.0	5	3.6
15	59.9	153.3	149	NA
16	63.4	145.2	3	3.6
17	55.0	158.6	33	3.9
18	58.1	154.4	128	NA
19	61.5	150.8	70	3.0
20	60.1	152.5	139	NA
21	60.3	153.2	150	3.2
22	58.7	156.9	199	5.5

Data from <http://wwwneic.cr.usgs.gov/neis/qed/qed.html>



Earthquake Data Table: U.S. West Coast

Station	Latitude (S)	Longitude (W)	Depth (Km)	Magnitude
1	33.7	116.7	20	1.2
2	36.6	121.2	8	3.1
3	33.9	118.2	14	3.1
4	34.3	116.9	6	3.3
5	33.5	116.6	7	1.4
6	38.8	122.8	4	1.5
7	34.5	119.0	11	1.6
8	33.2	115.6	5	3.1
9	39.3	120.4	4	1.7
10	37.7	122.1	9	1.3
11	38.8	122.7	3	1.5
12	34.5	116.5	1	1.5
13	34.1	118.3	5	1.5
14	38.0	122.0	18	1.7
15	37.5	118.6	5	1.7
16	36.5	120.8	4	1.5
17	37.6	121.7	7	1.4
18	37.0	121.7	5	1.7
19	36.1	117.9	5	1.1
20	33.8	117.0	16	1.0
21	32.6	117.0	0	1.5
22	33.2	117.4	25	1.0

Data from <http://quake.wr.usgs.gov/recenteqs/Quakes/quakes0.html>



Earthquake Data Table: Caribbean

Station	Latitude (S)	Longitude (W)	Depth (Km)	Magnitude
1	17.6	65.9	25	3.4
2	19.9	71.5	33	4.0
3	19.5	63.9	141	3.7
4	18.2	67.7	152	3.8
5	17.8	68.4	24	3.7
6	18.4	69.1	114	4.2
7	17.9	66.9	12	2.8
8	19.2	63.3	33	3.8
9	19.1	68.2	39	3.6
10	19.1	63.7	121	4.0
11	18.8	68.7	165	3.8
12	19.0	68.8	128	4.2
13	18.4	67.3	9	2.4
14	19.5	64.5	97	3.7
15	19.2	67.1	25	3.1
16	20.9	70.2	5	4.4
17	18.7	67.0	70	3.1
18	19.2	66.4	31	3.5
19	19.0	64.9	25	3.9
20	18.5	66.0	122	3.2
21	18.0	68.9	135	3.6
22	17.1	67.7	74	3.1

Data from http://neic.usgs.gov/neis/epic/epic_rect.html



Earthquake Data Table: South Pacific (Tonga/New Zealand)

Station	Latitude (S)	Longitude (W)	Depth (Km)	Magnitude
1	23.3	176.0	33	4.8
2	21.6	179.5	570	4.6
3	17.2	175.4	300	4.5
4	16.7	173.8	33	4.8
5	27.4	177.9	148	5.9
6	33.9	176.4	33	5.1
7	22.8	179.8	600	4.2
8	20.2	178.4	548	4.7
9	37.1	177.1 (E)	276	NA
10	24.7	179.8 (E)	500	4.9
11	37.3	176.3 (E)	215	NA
12	38.6	179.3 (E)	50	4.0
13	40.2	174.0 (E)	138	NA
14	35.0	178.8	33	5.3
15	25.1	179.1	300	4.4
16	23.8	179.8 (E)	577	4.3
17	18.2	175.6	300	4.5
18	25.7	178.9 (E)	600	4.4
19	37.8	177.0 (E)	133	NA
20	37.2	179.2	33	3.9
21	38.4	175.9 (E)	134	NA
22	18.3	178.1	550	4.5

Data from <http://wwwneic.cr.usgs.gov/neis/qed/qed.html>

