

TONGA

Inject No	Event Time [hhmm]	Exercise Time	Event	To	From
1	0	0	Earthquake Occurs!	All	Controller
2	2	2	Earthquake alarms trigger from P wave amplitudes off-scale at regional seismic network station	TMS	Controller
3	4	4	Tonga Geological Svc calculates Preliminary Earthquake Parameters:	TMS	Controller
4	5	5	CISN Display shows PTWC Earthquake Information, M8.5	TMS	Controller
5	6	6	PTWC Message 1: PTWC Tsunami Threat Message Initial M8.5	TMS	PTWC
6	7	7	The shaking woke me up and my house was shaking for more than 60 seconds. Some power lines fell down are down. What has just happened? Where was the earthquake? Is there a tsunami? When will it hit?	TMS, NEMO	Coastal Resident
7	11	11	Many coastal provinces and local governments hear media reports that PTWC is forecasting waves more than 0.6-meters. Coastal residents begin to call asking how big the tsunami is and whether they should evacuate	TMS, NEMO	Controller
8	17	17	PTWC Message 2: PTWC Tsunami Threat Message Magnitude Update M8.8	TMS	PTWC
9	24	24	Samoa TV News broadcasts live video of start of surf contest at North Coast beach It looks like a great day and waves look to be 3 m high. Surf's up. There are surfers heading into the water, and crowds are gathering	TMS, NEMO	Media
10	27	27	PTWC Message 3: PTWC Tsunami Threat Message Regional M8.8	TMS	PTWC
11	31	31	Prime Minister Siaosi Sovaleni calls and wants an update immediately as to what going on and what actions are being undertaken. What is expected for our country and when? Do we need to call a Tsunami Warning?	TMS	Prime Minister Siaosi Sovaleni
12	37	37	PTWC Message 4: PTWC Tsunami Threat Message Pacific M8.8	TMS	PTWC
13	41	41	TMS confirms tsunami at gauge: NUKUALOFA by Tide Tool, measured 1.4 m at 1040 UTC, Wave Period 48 min	TMS	Controller
14	46	46	Director 'Ofa Fa'anunu calls to request: 1) Earthquake and Tsunami report, 2) Tsunami travel time plot and coastal arrival times, 3) When will waves hit coasts and how big will they be, 4) Will it arrive at high tide or low tide?	TMS	Director 'Ofa Fa'anunu
15	48	48	TMS confirms tsunami at gauge: PAGO PAGO by Tide Tool, measured 1.9 m at 1048 UTC, Wave Period 49 min	TMS	Controller
16	48	48	TMS confirms tsunami at gauge: TAFUNA by Tide Tool, measured 1.9 m at 1048 UTC, Wave Period 44 min	TMS	Controller
17	48	48	TMS confirms tsunami at gauge: LEONE by Tide Tool, measured 3.9 m at 1048 UTC, Wave Period 43 min	TMS	Controller
18	48	48	TMS confirms tsunami at gauge: AMANAVE by Tide Tool, measured 3.9 m at 1048 UTC, Wave Period 40 min	TMS	Controller
19	50	50	TMS confirms tsunami at gauge: AUNUU ISLAND by Tide Tool, measured 3.1 m at 1049 UTC, Wave Period 44 min	TMS	Controller
20	53	53	TMS confirms tsunami at gauge: FAGALELE SAVAILI by Tide Tool, measured 1.8 m at 1052 UTC, Wave Period 51 min	TMS	Controller

21	54	54	Public phone calls begin to saturate the telephone lines. They report that some people are evacuating. One old person who lives alone by the beach and cannot walk asks TMS/NEMO: Are we going to be hit? When? What should I do?	TMS, NEMO	Member of Public
22	54	54	TMS confirms tsunami at gauge: UTULOA SAVAII by Tide Tool, measured 1.8 m at 1054 UTC, Wave Period 39 min	TMS	Controller
23	55	55	TMS confirms tsunami at gauge: OFU ISLAND by Tide Tool, measured 2.4 m at 1054 UTC, Wave Period 43 min	TMS	Controller
24	55	55	TMS confirms tsunami at gauge: OLESEGA ISLAND by Tide Tool, measured 2.7 m at 1055 UTC, Wave Period 45 min	TMS	Controller
25	56	56	TMS confirms tsunami at gauge: FALEFA UPOLU by Tide Tool, measured 1.2 m at 1056 UTC, Wave Period 52 min	TMS	Controller
26	56	56	TMS confirms tsunami at gauge: TAU ISLAND by Tide Tool, measured 2.7 m at 1055 UTC, Wave Period 46 min	TMS	Controller
27	112	112	TMS confirms tsunami at gauge: WALLIS ISLAND by Tide Tool, measured 0.6 m at 1112 UTC, Wave Period 44 min	TMS	Controller
28	114	114	TMS confirms tsunami at gauge: SWAINS ISLAND by Tide Tool, measured 0.7 m at 1114 UTC, Wave Period 36 min	TMS	Controller
29	117	117	TMS reports tsunami at local guage by Tide Tool at 117	TMS	Controller
30	122	122	Television station Samoa TV calls requesting immediate live TV and phone interviews. Can you do a TV interview? Are you going to order an evacuation - and what time? How will we find out - how are you going to alert the public?	TMS, NEMO	Media
31	125	125	Hotels in the area are calling asking for guidance. Do they need to evacuate and where do they go? Where should they evacuate guests to? When will the waves stop?	NEMO	Municipal government
32	127	127	TMS confirms tsunami at gauge: RAOUL ISLAND by Tide Tool, measured 0.8 m at 1126 UTC, Wave Period 42 min	TMS	Controller
33	130	130	TMS confirms tsunami at gauge: FUTUNA ISLAND by Tide Tool, measured 0.8 m at 1129 UTC, Wave Period 40 min	TMS	Controller
34	133	133	TMS confirms tsunami at gauge: NUKUNONU ISLAND by Tide Tool, measured 0.4 m at 1132 UTC, Wave Period 41 min	TMS	Controller
35	135	135	TMS confirms tsunami at gauge: PUKAPUKA ISLAND by Tide Tool, measured 0.3 m at 1135 UTC, Wave Period 36 min	TMS	Controller
36	137	137	PTWC Message 5: PTWC Tsunami Threat Message M8.8	TMS	PTWC
37	140	140	Prime Minister Siaso Sovaleni calls and wants an update immediately as to what going on and what actions are being undertaken. What is expected for our country and when? Do we need to call a Tsunami Warning?	TMS	Prime Minister Siaso Sovaleni
38	150	150	TMS confirms tsunami at gauge: SUVA by Tide Tool, measured 1.2 m at 1149 UTC, Wave Period 52 min	TMS	Controller
39	153	153	TMS confirms tsunami at gauge: RAROTONGA by Tide Tool, measured 0.8 m at 1152 UTC, Wave Period 51 min	TMS	Controller
40	155	155	Port Authority calls to ask about tsunami threat. The container ships in port (containing copper ore) would like to know if should send them out to deep ocean, it would take 45 minutes to get them out to ~200 fathoms. authorities . When is the wave due?	TMS, NEMO	Port Authority

41	215	215	TMS confirms tsunami at gauge: FUNAFUTI ISLAND by Tide Tool, measured 0.4 m at 1215 UTC, Wave Period 42 min	TMS	Controller
42	225	225	TMS confirms tsunami at gauge: KANTON ISLAND by Tide Tool, measured 0.1 m at 1224 UTC, Wave Period 45 min	TMS	Controller
43	231	231	TMS confirms tsunami at gauge: LOTTIN POINT by Tide Tool, measured 0.5 m at 1230 UTC, Wave Period 47 min	TMS	Controller
44	234	234	TMS confirms tsunami at gauge: EAST CAPE by Tide Tool, measured 0.5 m at 1233 UTC, Wave Period 46 min	TMS	Controller
45	237	237	PTWC Message 6: PTWC Tsunami Threat Message M8.8	TMS	PTWC
46	240	240	TMS confirms tsunami at gauge: PENRYN ISLAND by Tide Tool, measured 1.1 m at 1240 UTC, Wave Period 37 min	TMS	Controller
47	247	247	TMS confirms tsunami at gauge: GISBORNE by Tide Tool, measured 0.2 m at 1246 UTC, Wave Period 53 min	TMS	Controller
48	250	250	TMS confirms tsunami at gauge: HOWLAND ISLAND by Tide Tool, measured 0.4 m at 1249 UTC, Wave Period 41 min	TMS	Controller
49	306	306	TMS confirms tsunami at gauge: FLINT ISLAND by Tide Tool, measured 0.5 m at 1305 UTC, Wave Period 47 min	TMS	Controller
50	312	312	TMS confirms tsunami at gauge: ANATOM ISLAND by Tide Tool, measured 0.4 m at 1311 UTC, Wave Period 47 min	TMS	Controller
51	316	316	TMS confirms tsunami at gauge: TUBUAL by Tide Tool, measured 2.3 m at 1315 UTC, Wave Period 50 min	TMS	Controller
52	317	317	TMS confirms tsunami at gauge: JARVIS ISLAND by Tide Tool, measured 0.7 m at 1317 UTC, Wave Period 41 min	TMS	Controller
53	320	320	TMS confirms tsunami at gauge: PAPEETE by Tide Tool, measured 1.2 m at 1320 UTC, Wave Period 43 min	TMS	Controller
54	326	326	TMS confirms tsunami at gauge: MALDEN ISLAND by Tide Tool, measured 0.3 m at 1326 UTC, Wave Period 51 min	TMS	Controller
55	337	337	PTWC Message 7: PTWC Tsunami Threat Message M8.8	TMS	PTWC
56	348	348	TMS confirms tsunami at gauge: ESPERITU SANTO by Tide Tool, measured 0.4 m at 1348 UTC, Wave Period 39 min	TMS	Controller
57	349	349	TMS confirms tsunami at gauge: PALMYRA ISLAND by Tide Tool, measured 0.3 m at 1349 UTC, Wave Period 46 min	TMS	Controller
58	407	407	TMS confirms tsunami at gauge: SANTA CRUZ ISLAND by Tide Tool, measured 0.7 m at 1407 UTC, Wave Period 50 min	TMS	Controller
59	424	424	TMS confirms tsunami at gauge: MAJURO by Tide Tool, measured 0.2 m at 1424 UTC, Wave Period 39 min	TMS	Controller
60	435	435	TMS confirms tsunami at gauge: KIRAKIRA by Tide Tool, measured 0.4 m at 1435 UTC, Wave Period 46 min	TMS	Controller
61	437	437	PTWC Message 8: PTWC Tsunami Threat Message M8.8	TMS	PTWC
62	458	458	TMS confirms tsunami at gauge: KWAJALEIN by Tide Tool, measured 0.2 m at 1458 UTC, Wave Period 38 min	TMS	Controller
63	503	503	TMS confirms tsunami at gauge: AUKI by Tide Tool, measured 0.2 m at 1502 UTC, Wave Period 48 min	TMS	Controller
64	504	504	TMS confirms tsunami at gauge: JOHNSTON ISLAND by Tide Tool, measured 0.2 m at 1503 UTC, Wave Period 53 min	TMS	Controller
65	511	511	TMS confirms tsunami at gauge: KOSRAE ISLAND by Tide Tool, measured 0.2 m at 1510 UTC, Wave Period 37 min	TMS	Controller
66	537	537	PTWC Message 9: PTWC Tsunami Threat Message M8.8	TMS	PTWC

67	545	545	TMS confirms tsunami at gauge: KIETA by Tide Tool, measured 0.2 m at 1545 UTC, Wave Period 37 min	TMS	Controller
68	553	553	TMS confirms tsunami at gauge: HONUAPU by Tide Tool, measured 0.2 m at 1553 UTC, Wave Period 38 min	TMS	Controller
69	558	558	TMS confirms tsunami at gauge: POHNPEI ISLAND by Tide Tool, measured 0.1 m at 1557 UTC, Wave Period 44 min	TMS	Controller
70	602	602	TMS confirms tsunami at gauge: KEKAHA by Tide Tool, measured 0.3 m at 1601 UTC, Wave Period 52 min	TMS	Controller
71	603	603	TMS confirms tsunami at gauge: NAWILIWILI by Tide Tool, measured 0.2 m at 1603 UTC, Wave Period 37 min	TMS	Controller
72	603	603	TMS confirms tsunami at gauge: WAIANAE by Tide Tool, measured 0.8 m at 1602 UTC, Wave Period 47 min	TMS	Controller
73	605	605	TMS confirms tsunami at gauge: HONOLULU by Tide Tool, measured 0.3 m at 1604 UTC, Wave Period 42 min	TMS	Controller
74	608	608	TMS confirms tsunami at gauge: HILO by Tide Tool, measured 0.1 m at 1608 UTC, Wave Period 48 min	TMS	Controller
75	611	611	TMS confirms tsunami at gauge: KAUNAKAKAI by Tide Tool, measured 0.1 m at 1610 UTC, Wave Period 46 min	TMS	Controller
76	612	612	TMS confirms tsunami at gauge: HANAIEI by Tide Tool, measured 0.2 m at 1612 UTC, Wave Period 35 min	TMS	Controller
77	618	618	TMS confirms tsunami at gauge: LAHAINA by Tide Tool, measured 0.1 m at 1617 UTC, Wave Period 36 min	TMS	Controller
78	622	622	TMS confirms tsunami at gauge: KALAUPAPA by Tide Tool, measured 0.1 m at 1621 UTC, Wave Period 37 min	TMS	Controller
79	629	629	TMS confirms tsunami at gauge: SYDNEY by Tide Tool, measured 0.2 m at 1628 UTC, Wave Period 48 min	TMS	Controller
80	637	637	PTWC Message 10: PTWC Tsunami Threat Message M8.8	TMS	PTWC
81	638	638	TMS confirms tsunami at gauge: MIDWAY ISLAND by Tide Tool, measured 0.2 m at 1637 UTC, Wave Period 52 min	TMS	Controller
82	640	640	TMS confirms tsunami at gauge: BRISBANE by Tide Tool, measured 0.1 m at 1640 UTC, Wave Period 41 min	TMS	Controller
83	653	653	TMS confirms tsunami at gauge: CHUUK ISLAND by Tide Tool, measured 0.2 m at 1653 UTC, Wave Period 36 min	TMS	Controller
84	737	737	PTWC Message 11: PTWC Tsunami Threat Message M8.8	TMS	PTWC
85	749	749	TMS confirms tsunami at gauge: OBYAN by Tide Tool, measured 0.1 m at 1748 UTC, Wave Period 53 min	TMS	Controller
86	751	751	TMS confirms tsunami at gauge: CHULU BEACH by Tide Tool, measured 0.1 m at 1751 UTC, Wave Period 34 min	TMS	Controller
87	752	752	TMS confirms tsunami at gauge: LONG BEACH by Tide Tool, measured 0.1 m at 1751 UTC, Wave Period 37 min	TMS	Controller
88	837	837	PTWC Message 12: PTWC Tsunami Threat Message M8.8	TMS	PTWC
89	855	855	TMS confirms tsunami at gauge: EASTER ISLAND by Tide Tool, measured 0.6 m at 1854 UTC, Wave Period 51 min	TMS	Controller
90	906	906	TMS confirms tsunami at gauge: WARSA by Tide Tool, measured 0.1 m at 1906 UTC, Wave Period 47 min	TMS	Controller
91	913	913	TMS confirms tsunami at gauge: MALAKAL by Tide Tool, measured 0.2 m at 1913 UTC, Wave Period 41 min	TMS	Controller
92	937	937	PTWC Message 13: PTWC Tsunami Threat Message M8.8	TMS	PTWC
93	945	945	TMS confirms tsunami at gauge: KATSUURA by Tide Tool, measured 0.1 m at 1945 UTC, Wave Period 34 min	TMS	Controller
94	1031	1031	TMS confirms tsunami at gauge: SOCORRO by Tide Tool, measured 0.4 m at 2031 UTC, Wave Period 51 min	TMS	Controller

95	1037	1037	PTWC Message 14: PTWC Tsunami Threat Message M8.8	TMS	PTWC
96	1051	1051	TMS confirms tsunami at gauge: PUNTA ABREOJOS by Tide Tool, measured 0.7 m at 2050 UTC, Wave Period 41 min	TMS	Controller
97	1055	1055	TMS confirms tsunami at gauge: SAN PEDRO by Tide Tool, measured 0.4 m at 2055 UTC, Wave Period 53 min	TMS	Controller
98	1132	1132	TMS confirms tsunami at gauge: NEWPORT by Tide Tool, measured 0.2 m at 2132 UTC, Wave Period 35 min	TMS	Controller
99	1137	1137	PTWC Message 15: PTWC Tsunami Threat Message M8.8	TMS	PTWC
100	1148	1148	TMS confirms tsunami at gauge: TOFINO by Tide Tool, measured 0.2 m at 2147 UTC, Wave Period 52 min	TMS	Controller
101	1152	1152	TMS confirms tsunami at gauge: NEAH BAY by Tide Tool, measured 0.2 m at 2152 UTC, Wave Period 46 min	TMS	Controller
102	1209	1209	TMS confirms tsunami at gauge: LANGARA by Tide Tool, measured 0.1 m at 2209 UTC, Wave Period 53 min	TMS	Controller
103	1237	1237	PTWC Message 16: PTWC Tsunami Threat Message M8.8	TMS	PTWC
104	1254	1254	TMS confirms tsunami at gauge: BALTRA ISLAND by Tide Tool, measured 0.2 m at 2254 UTC, Wave Period 40 min	TMS	Controller
105	1337	1337	PTWC Message 17: PTWC Tsunami Threat Message M8.8	TMS	PTWC
106	1359	1359	TMS confirms tsunami at gauge: LA LIBERTAD by Tide Tool, measured 0.6 m at 2359 UTC, Wave Period 45 min	TMS	Controller
107	1411	1411	TMS confirms tsunami at gauge: PUERTO SANDINO by Tide Tool, measured 0.2 m at 0011 UTC, Wave Period 46 min	TMS	Controller
108	1412	1412	TMS confirms tsunami at gauge: SAN JUAN DL SUR by Tide Tool, measured 0.3 m at 0011 UTC, Wave Period 50 min	TMS	Controller
109	1414	1414	TMS confirms tsunami at gauge: CABO MATAPALO by Tide Tool, measured 0.3 m at 0013 UTC, Wave Period 49 min	TMS	Controller
110	1417	1417	TMS confirms tsunami at gauge: AMAPALA by Tide Tool, measured 0.2 m at 0017 UTC, Wave Period 41 min	TMS	Controller
111	1437	1437	PTWC Message 18: PTWC Tsunami Threat Message M8.8	TMS	PTWC
112	1443	1443	TMS confirms tsunami at gauge: ESMERELDAS by Tide Tool, measured 0.4 m at 0042 UTC, Wave Period 52 min	TMS	Controller
113	1504	1504	TMS confirms tsunami at gauge: PUNTA MALA by Tide Tool, measured 0.4 m at 0104 UTC, Wave Period 38 min	TMS	Controller
114	1514	1514	TMS confirms tsunami at gauge: PUERTO PINA by Tide Tool, measured 0.5 m at 0114 UTC, Wave Period 45 min	TMS	Controller
115	1537	1537	PTWC Message 19: PTWC Tsunami Threat Message M8.8	TMS	PTWC
116	1637	1637	PTWC Message 20: PTWC Tsunami Threat Message M8.8	TMS	PTWC
117	1737	1737	PTWC Message 21: PTWC Tsunami Threat Message M8.8	TMS	PTWC
118	1837	1837	PTWC Message 22: PTWC Tsunami Threat Message M8.8	TMS	PTWC
119	1937	1937	PTWC Message 23: PTWC Tsunami Threat Message M8.8	TMS	PTWC
120	2037	2037	PTWC Message 24: PTWC Tsunami Threat Message M8.8	TMS	PTWC
121	2137	2137	PTWC Message 25: PTWC Tsunami Threat Message Final M8.8	TMS	PTWC
122	3537	3537	END OF EXERCISE THANK YOU FOR PARTICIPATING	TMS, NEMO	Exercise Controller