

4.17. Arrival Times

Arrival times of the first and maximum waves for each modelled event at each location are shown in Table 1. Times are given in minutes following the generating earthquake.

Table 1: Arrival times (minutes after the source event) of the first and maximum modelled waves at each location.

Location	South American		TKSZ	
	T ₁ (mins)	T _{max} (mins)	T ₁ (mins)	T _{max} (mins)
Houhora/Pukenui	927	1068	99	103
Cooper's Beach	922	1062	93	97
Rangiputa	927	1069	99	112
Mangonui	922	1062	92	96
Cable Bay	922	1062	92	96
HiHi	922	1062	92	96
Taupo Bay	914	1046	85	90
Tauranga Bay	914	1047	84	89
Te Ngairē	912	1047	83	87
Lang's Beach	925	1230	94	265
Dargaville/Ruawai	1048	1195	288	468
Opuā	923	1063	92	98
Bland Bay	907	1081	74	81
Helena Bay	909	1082	80	88
Omapere	1016	1304	160	251

For the South American event, the first wave arrives after about 15 hours, with the maximum wave height typically occurring a further two hours later. For tsunamis originating from the Tonga-Kermadec subduction zone, the first waves arrive after about 80 minutes, except for Omapere and Dargaville/Ruawai, where arrival is further delayed. The maximum wave heights occur after about 80-110 minutes, again with the exception of the west coast locations.