Supplement of Nat. Hazards Earth Syst. Sci., 19, 2781–2794, 2019
<https://doi.org/10.5194/nhess-19-2781-2019-supplement>
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Natural Hazards
and Earth System
Sciences

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Supplement of

Post-event field survey of 28 September 2018 Sulawesi earthquake and tsunami

Wahyu Widiyanto et al.

Correspondence to: Shih-Chun Hsiao (schsiao@mail.ncku.edu.tw)

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Runup and inundation

No.	Site name	Measurement time	Coordinates		Inundation distance (m)	Runup height (m)	Inundation depth (m)	Watermark
			Longitude	Latitude				
1.	Donggala City	12-Oct-18 16:34:08	119.741313	-0.663054	25.60	2.25	-	BL, SD
2.	Loli Dondo	16-Oct-18 15:27:28	119.776100	-0.731612	65.36	2.50	-	BB, BV, DS
			119.776664	-0.731339	-	-	2.10	
3.	Loli Saluran	16-Oct-18 14:16:54	119.794095	-0.783867	118.49	2.18	-	BB, BV, DS
4.	Watu Sampu	16-Oct-18 12:48:04	119.810032	-0.822144	71.51	6.63	-	BL, BV, DD, EW
			119.810746	-0.821815	-	-	7.63	
			119.810484	-0.821851	-	-	3.68	
5.	Tipo	17-Oct-18 10:25:41	119.829355	-0.864574	91.11	7.79	-	DS, EW
6.	Silae	17-Oct-18 15:08:35	119.834315	-0.874580	80.13	4.53	-	DD, DS, GD
7.	Lere	15-Oct-18 14:30:19	119.843401	-0.885372	228.22	1.40	3.90	DD, DS, GD
			119.843921	-0.883389	-	-	3.71	
			119.845245	-0.884549	-	-	4.64	
8.	Besusu Barat	16-Oct-18 8:20:46	119.860210	-0.887457	250.35	1.12	3.25	BB, DD, DS, GD
			119.862034	-0.885743	-	-	4.89	
			119.860762	-0.885652	-	-	2.22	
			119.860110	-0.885546	-	-	3.28	
9.	Talise	15-Oct-18 8:12:18	119.873739	-0.876266	254.23	2.79	-	BB, DS, GD, EW
			119.874616	-0.873833	-	2.94	-	DD, DS, GD
			119.874389	-0.874440	-	3.02	-	DD, DS, GD
			119.874294	-0.875004	-	2.71	-	DD, DS, GD
			119.873755	-0.874115	-	-	2.48	
			119.872371	-0.874472	-	-	2.68	
10.	Tondo	14-Oct-18 12:58:26	119.881499	-0.844691	270.27	10.73	-	DC, DD, DS, EW
			119.880688	-0.843981	-	7.97	-	DC, DD, DS, EW
			119.881253	-0.845850	-	10.14	-	DC, DD, DS, EW
			119.880854	-0.846571	-	8.5	-	DC, DD, DS, EW
			119.880408	-0.844700	-	-	7.39	
			119.880640	-0.846648	-	-	4.20	
11.	Layana	14-Oct-18 7:45:14	119.887135	-0.822159	487.84	6.57	-	DD, DS, GD, WW
			119.883472	-0.823863	-	2.78	-	DD, DS, GD
			119.883352	-0.823840	-	-	4.44	
			119.883470	-0.823864	-	-	4.35	
			119.884453	-0.820980	-	-	4.18	
12.	Mamboro	13-Oct-18 13:43:47	119.879074	-0.801753	164.08	3.48	-	DC, DD, DS, EW
			119.878349	-0.800542	-	3.68	-	DC, DD, DS, EW
			119.877522	-0.801852	-	-	5.52	
			119.877164	-0.801229	-	-	7.79	
			119.877384	-0.800166	-	-	2.44	
13.	Taipa:	17-Oct-18 8:56:31	119.858686	-0.778698	110.94	3.15	-	BV, DS, EW
			119.859367	-0.779472	-	4.52	-	BV, DS, EW
			119.859542	-0.779995	-	4.88	-	BV, DS, EW
			119.858177	-0.778752	-	-	8.40	

13.	Taipa:	17-Oct-18 8:56:31	119.858686 119.859367 119.859542 119.858177	-0.778698 -0.779472 -0.779995 -0.778752	110.94 - - -	3.15 4.52 4.88 -	- - - 8.40	BV, DS, EW BV, DS, EW BV, DS, EW DS, EW, GD
14.	Pantoloan	17-Oct-18 13:33:12	119.857660	-0.710840	166.70	2.30	-	DS, EW, GD
15.	Wani	17-Oct-18 12:34:23	119.841543 119.841150 119.842266	-0.693099 -0.694111 -0.694969	185.13 - -	3.58 - -	- 5.14 2.84	BL, DD, EW, MO
16.	Lero	17-Oct-18 11:27:51	119.812422	-0.629011	75.80	1.77	-	DS, EW, WW
17.	Tanjung Padang	18-Oct-18 12:43:01	119.803220	-0.231612	95.80	1.22	-	DS, EW, GD
18.	Lende	18-Oct-18 14:11:29	119.817232	-0.185461	36.60	1.17	-	EW, GD

Tide correction used wx Tide software. Tsunami arrival time was assumed at 18:10 local time with water elevation was at 1.98.

List of Palu-Sulawesi tsunami 2018 video recorded by Wahyu Widiyanto and team:

<https://drive.google.com/file/d/1dJ30ldTu1PjqWemfXMWPd29I5BZkfmhJ/view?usp=sharing>
<https://drive.google.com/open?id=1dJ30ldTu1PjqWemfXMWPd29I5BZkfmhJ>
<https://drive.google.com/file/d/1yR8BzYUAakwRi6nfS1jkn1z5yVJkce7L/view?usp=sharing>
<https://drive.google.com/file/d/1VSbjiBL6MBtJukpNKqGua2GIDQjhcABu/view?usp=sharing>
https://drive.google.com/file/d/10BAI_6knGqrjGpYTM345odONxGmvQY7/view?usp=sharing
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<https://drive.google.com/file/d/19pXpuaDY7Ac9QfYDwI9drTI1WSTCfs9M/view?usp=sharing>
https://drive.google.com/file/d/1eVU9RzOmTbxAfri7Ed75q4kJS7_CkCrO/view?usp=sharing
<https://drive.google.com/file/d/1g9fKi34aUmr5ZZO4993u0-KXAvwwUM9T/view?usp=sharing>
<https://drive.google.com/file/d/1A2adWtApXDFh3omfw9S8ypBvzXhxEf9k/view?usp=sharing>
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<https://drive.google.com/open?id=10mq9JyZ7D8d0L978wE1lktzbaSW5o8bx>
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<https://drive.google.com/open?id=1X6v8PQQIWqYbFgyqtlRE8v2VtZKK51ri>
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<https://drive.google.com/open?id=1A0XaP7r-hyxOL1MlhwiFkuIMW4C4j7C>
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<https://drive.google.com/open?id=1IMRFNKL-2P4XTKZvdeqAw5PScNeubaJx>
<https://drive.google.com/open?id=1RXJDYK51AqV0qcWyLzJ2Tvwmut8Uxzqt>

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More videos ...you could request to

wahyu.widiyanto@unsoed.ac.id or wahyu.widiyanto.ts@gmail.com

A reinforced concrete bridge on Cumi-cumi Road Palu City shifted of 9.7 m by the tsunami

Handheld GPS record

Point	Time	Coordinates	Elevation
P3	11-OCT-18 10:33:20AM	50 M 825550 9889077	92 m
P4	11-OCT-18 11:33:38AM	50 M 825003 9890776	78 m
P5	11-OCT-18 12:31:41PM	50 M 822999 9896197	54 m
P6	11-OCT-18 3:37:20PM	50 M 816263 9923145	1 m
P1	11-OCT-18 9:04:47AM	50 M 824212 9896349	65 m
P2	11-OCT-18 9:28:24AM	50 M 823290 9897428	67 m
P10	12-OCT-18 3:02:19PM	50 M 809037 9941203	41 m
P11	12-OCT-18 4:34:08PM	50 M 812915 9930491	3 m
P12	12-OCT-18 4:43:29PM	50 M 812917 9930506	5 m
P7	12-OCT-18 8:53:17AM	50 M 805136 9926628	0 m
P8	12-OCT-18 9:28:03AM	50 M 805538 9926263	10 m
P9	12-OCT-18 9:47:26AM	50 M 805636 9926133	11 m
Mamboro P1	13-OCT-18 1:43:47PM	50 M 820305 9911263	15 m
Mamboro P2	13-OCT-18 1:47:39PM	50 M 820327 9911297	16 m
Tondo P2	14-OCT-18 1:05:32PM	50 M 820563 9906379	17 m
Tondo P1	14-OCT-18 12:58:26PM	50 M 820536 9906494	16 m
Layana P1	14-OCT-18 7:45:14AM	50 M 820947 9909012	8 m
Layana P2	14-OCT-18 7:55:13AM	50 M 821118 9909012	10 m
Talise P4	15-OCT-18 10:05:39AM	50 M 819881 9903029	18 m
Lere P1	15-OCT-18 2:30:19PM	50 M 816684 9902236	10 m
Lere P2	15-OCT-18 2:36:29PM	50 M 816670 9902116	7 m
Talise P2	15-OCT-18 7:58:31AM	50 M 819735 9903292	3 m
Talise P1	15-OCT-18 8:12:18AM	50 M 819717 9903225	4 m
Talise P3	15-OCT-18 9:31:51AM	50 M 819784 9903059	14 m
Tipo P1	16-OCT-18 10:25:41AM	50 M 815002 9904360	22 m
Tipo P2	16-OCT-18 10:29:48AM	50 M 814993 9904407	22 m
Wtsampu P1	16-OCT-18 12:48:04PM	50 M 812845 9909023	13 m
Wtsampu P2	16-OCT-18 12:54:22PM	50 M 812850 9908967	14 m
Loli P1	16-OCT-18 2:16:54PM	50 M 811083 9913325	15 m
Loli P2	16-OCT-18 2:21:10PM	50 M 811053 9913378	13 m
Dondo P1	16-OCT-18 3:27:28PM	50 M 809068 9919043	2 m
Dondo P2	16-OCT-18 3:32:27PM	50 M 809048 9919016	3 m
Besusu P1	16-OCT-18 8:20:46AM	50 M 818479 9902008	16 m
Besusu P2	16-OCT-18 8:27:01AM	50 M 818610 9901970	15 m
Besusu P3	16-OCT-18 9:02:55AM	50 M 818336 9902016	16 m
Pntoloan Tp	17-OCT-18 1:33:12PM	50 M 818095 9921332	21 m
Lero RU	17-OCT-18 11:27:51AM	50 M 813060 9930391	16 m
Lero BP	17-OCT-18 11:37:20AM	50 M 812974 9930351	14 m
Wani P1	17-OCT-18 12:34:23PM	50 M 816247 9923122	20 m
Wani P2	17-OCT-18 12:38:33PM	50 M 816214 9923099	20 m
Silae2 P1	17-OCT-18 3:08:35PM	50 M 815527 9903228	11 m
Silae2 P2	17-OCT-18 3:14:04PM	50 M 815591 9903197	8 m
Taipa P1	17-OCT-18 8:56:31AM	50 M 818172 9913780	18 m
Taipa P2	17-OCT-18 9:01:46AM	50 M 818226 9913657	16 m
Tj Padang Bp	18-OCT-18 12:43:01PM	50 M 811942 9974424	16 m
Tj Padang RU	18-OCT-18 12:59:07PM	50 M 812051 9974369	14 m
Lende RU	18-OCT-18 2:11:29PM	50 M 813613 9979476	9 m
L1	18-OCT-18 2:54:47PM	50 M 807298 9957174	18 m
L2	18-OCT-18 3:31:31PM	50 M 807552 9956764	48 m
L3	18-OCT-18 3:50:29PM	50 M 807554 9949073	44 m
L4	18-OCT-18 3:51:26PM	50 M 807559 9948342	30 m
L5	18-OCT-18 3:59:05PM	50 M 808233 9943478	10 m
L6	18-OCT-18 3:59:41PM	50 M 808582 9943575	25 m
L7	18-OCT-18 4:00:19PM	50 M 808453 9943354	36 m
L8	18-OCT-18 4:03:07PM	50 M 808225 9942945	22 m
L9	18-OCT-18 4:03:59PM	50 M 808253 9942806	10 m
L10	18-OCT-18 4:04:25PM	50 M 808140 9942718	7 m
L11	18-OCT-18 4:04:40PM	50 M 808105 9942604	12 m
L12	18-OCT-18 4:04:49PM	50 M 808065 9942557	19 m
L13	18-OCT-18 4:04:59PM	50 M 808073 9942422	21 m
L14	18-OCT-18 4:06:02PM	50 M 808391 9941849	39 m
L15	18-OCT-18 4:07:37PM	50 M 809009 9941232	7 m
L16	18-OCT-18 4:08:29PM	50 M 809242 9940793	2 m
Jmbatan	19-OCT-18 7:33:47PM	50 M 816011 9902476	4 m
Balaroa	19-OCT-18 9:54:58AM	50 M 816726 9900131	32 m

Site transect/cross section

(data was extracted from total station and plotted using ARCGIS, uncorrected with tide)

Tidal data (copyright©BIG 2019)

Data

Station Pel. Pantoloan - Sulteng

No : 53

StationID : 0036PTLN02

StationName : Pel. Pantoloan - Sulteng

Longitude : 119.857

Latitude : -0.7117

☐ 2018-09-28 24 Hours 7 Days 30 Days

Grafik

Tabel

Sea Level - 1 month Until 2018-09-28 @ Pel. Pantoloan - Sulteng

List of interviewed eyewitnesses

No.	Site name	Name of Eyewitnesses	Number of eyewitnesses
1	Donggala Town	Ardin (fisherman), waters guard, police	4
2	Loli Dondo	Sulis, a man	2
3	Loli Saluran	Tend residents	2
4	Watu Sampu	Mr. Purnomo, Mr. Widodo	2
5	Tipo	Marsi, a young man	2
6	Silae	Two workers	2
7	Lere	Two men	2
8	Besusu Barat	Mama Ranti, Mama Lili, Mr. Hamdan, Mr. Abdul, Mama Fino	5
9	Talise	Mr. Fadlan, Mrs. Does, young man	3
10	Tondo	Mr. Prasetyono (community leader), Pras's wife, Mr. Acit, Erwin, Jono, Iwan, Iwan's wife, Iwan neighbours, Sumadi, Ambo	11
11	Layana	Armis, matrass seller, two men	4
12	Mamboro	Mr. Abdu Rozak (community leader), three mothers	4
13	Taipa	Mr. Bambang (community leader), Edi	2
14	Pantoloan	Latif, Ojek, Port staff	
15	Wani	Latif (fisherman), Latif's wife, Latif's neighbours	4
16	Lero	Mr. Anto, old man, Anto's neighbours	4
17	Sirenja	Oma Tua, Oma Muda,	4
Total number of eyewitnesses			56

Raw data from measurement instrument (total station)

Site Tondo

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9906495.92	820538.016	5.555
2	p2	9906381.488	820561.692	6.412
3	sp1	9906715.639	820450.647	0.001
4	k1	9906577.635	820553.732	5.759
5	sp2	9906560.678	820461.49	-0.02
6	k2	9906525.66	820601.9	8.096
7	k3	9906504.008	820599.292	7.939
8	sp3	9906505.509	820480.142	-0.14
9	k4	9906508.639	820648.967	9.507
10	k5	9906510.453	820679.22	10.255
11	k6	9906517.188	820740.216	12.197
12	sp5	9906320.618	820484.887	0.016
13	k20	9906513.843	820610.207	8.47
14	ma1	9906516.234	820618.635	16.192
15	k21	9906628.867	820622.034	9.259
16	k22	9906595.837	820649.925	9.442
17	2k1	9906386.368	820545.613	6.086
18	2k2	9906386.251	820582.974	7.759
19	2k3	9906388.889	820641.393	9.435
20	2k4	9906310.414	820575.977	6.549
21	2k5	9906383.046	820667.243	9.903
22	2k6	9906306.829	820630.797	8.856
23	2k7	9906384.473	820692.268	10.667
24	2k8	9906304.679	820642.262	8.925
25	2k9	9906388.996	820712.682	11.608
26	ma2	9906300.663	820644.374	13.149
27	3k1	9906309.234	820668.146	9.967

Site Layana

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9906495.92	820538.016	5.555
2	p2	9906381.488	820561.692	6.412
3	sp1	9906715.639	820450.647	0.001
4	k1	9906577.635	820553.732	5.759
5	sp2	9906560.678	820461.49	-0.02
6	k2	9906525.66	820601.9	8.096
7	k3	9906504.008	820599.292	7.939
8	sp3	9906505.509	820480.142	-0.14
9	k4	9906508.639	820648.967	9.507
10	k5	9906510.453	820679.22	10.255
11	k6	9906517.188	820740.216	12.197
12	sp5	9906320.618	820484.887	0.016
13	k20	9906513.843	820610.207	8.47
14	ma1	9906516.234	820618.635	16.192
15	k21	9906628.867	820622.034	9.259
16	k22	9906595.837	820649.925	9.442
17	2k1	9906386.368	820545.613	6.086
18	2k2	9906386.251	820582.974	7.759
19	2k3	9906388.889	820641.393	9.435
20	2k4	9906310.414	820575.977	6.549
21	2k5	9906383.046	820667.243	9.903
22	2k6	9906306.829	820630.797	8.856
23	2k7	9906384.473	820692.268	10.667
24	2k8	9906304.679	820642.262	8.925
25	2k9	9906388.996	820712.682	11.608
26	ma2	9906300.663	820644.374	13.149
27	3k1	9906309.234	820668.146	9.967

Site Mambo

1	9911264.3	820307	3.109 p1
2	9911298.061	820330.088	3.601 p2
3	9911257.127	820301.138	3.19 k1
4	9911258.526	820300.595	8.675 ma1
5	9911232.259	820283.347	3.06 k2
6	9911215.59	820269.265	1.959 k3
7	9911180.364	820242.197	0.443 k4
8	9911401.046	820391.11	5.183 k5
9	9911401.05	820391.112	5.182 ma2
10	9911212.806	820308.431	3.117 2k1
11	9911200.492	820299.849	2.419 2k2
12	9911177.146	820273.774	1.623 2k3
13	9911177.156	820273.777	1.623 2k4
14	9911268.149	820433.461	4.678 2k5
15	9911268.149	820433.47	4.679 2ma1
16	9911166.789	820269.545	0.99 2k10
17	9911149.336	820253.413	0.459 2k11
18	9911212.478	820328.2	2.418 2k12
19	9911212.181	820328.221	11.977 2ma12
20	9911327.444	820262.254	3.236 3k1
21	9911327.442	820260.719	10.976 3ma1
22	9911312.131	820245.339	2.897 3k2
23	9911305.188	820220.031	1.62 3k3
24	9911309.218	820233.889	2.833 3k4
25	9911302.454	820195.648	1.069 3k5
26	9911302.452	820195.653	1.07 3k6
27	9911445.102	820285.339	7.359 3ma2
28	9911445.134	820285.124	4.984 3k10

Site Talise

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9903224	819717	1.411
2	p2	9903292	819735	1.459
3	ps1	9903299.779	819694.915	0
4	ps2	9903284.701	819691.397	-0.029
5	jl1	9903317.981	819712.663	1.695
6	ps3	9903273.813	819694.801	-0.033
7	jl2	9903283.273	819710.573	1.612
8	ps4	9903255.235	819690.963	-0.035
9	jl3	9903243.022	819708.206	1.489
10	ps5	9903229.992	819689.822	-0.015
11	jl4	9903201.651	819704.444	1.439
12	ps6	9903206.149	819689.037	0.044
13	jl6	9903174.298	819702.725	1.403
14	ps7	9903172.776	819694.5	0.644
15	jl8	9903145.528	819700.928	1.522
16	jl9	9903145.421	819709.57	1.525
17	jl10	9903174.614	819711.461	1.47
18	ps11	9903157.474	819689.458	0.105
19	jl11	9903198.854	819712.865	1.488
20	k1	9903263.315	819875.092	2.82
21	ma1	9903261.435	819875.083	5.202
22	ma2	9903222.053	819720.9	4.161
23	k2	9903222.232	819720.852	1.449
24	k3	9903216.096	819803.553	1.086
25	p3	9903055.011	819779.635	1.897
26	2k1	9903047.567	819800.236	2.202
27	p4	9903023.411	819873.019	2.828
28	p5	9903168.525	819910.657	2.383
29	5k1	9903280.656	819966.252	2.783
30	5k2	9903292.674	819970.91	2.978
31	5k3	9903225.43	819945.556	3.063
32	5k4	9903163.023	819934.93	2.754

Site Besusu

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p2	9901970	818612	1.317
2	p1	9902009	818481	1.296
3	j1	9901960.258	818606.827	1.389
4	sp1	9901985.176	818613.419	0.104
5	j2	9901962.418	818592.871	1.433
6	ps3	9901994.676	818594.43	0.164
7	j4	9901965.858	818541.04	1.42
8	ps4	9902011.545	818556.223	0.079
9	ps5	9901977.96	818471.092	1.555
10	ps6	9902044.042	818495.549	0.01
11	k1	9901976.397	818567.181	1.107
12	ma1	9901975.621	818568.286	6.016
13	k2	9901986.843	818423.522	1.74
14	ma2	9901985.801	818426.578	3.962
15	sp8	9902055.613	818396.609	0.023
16	p3	9902016.59	818335.282	1.525
17	3sp1	9902055.267	818342.23	0.088
18	3sp2	9902036.928	818313.74	0.027
19	3k1	9902002.36	818333.397	1.294
20	3k2	9901997.855	818353.96	1.497
21	ma3	9901997.581	818353.965	4.747
22	3k3	9901966.308	818337.963	1.383
23	3k4	9901911.796	818346.065	1.707
24	3k5	9901882.269	818349.42	1.4
25	3k6	9901816.151	818356.899	1.33
26	3k7	9901786.124	818364.968	1.339

Site Wani

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9923124	816242	1.989
2	p2	9923099	816213	2.152
3	sp1	9923097.204	816247.635	0.01
4	k1	9923093.391	816224.634	2.184
5	k2	9923106.863	816242.101	1.633
6	k3	9923105.271	816225.755	2.114
7	k4	9923152.985	816249.565	1.767
8	k5	9923127.781	816223.411	1.957
9	k6	9923182.468	816259.554	2.395
10	k7	9923132.739	816219.583	1.937
11	k8	9923222.872	816272.824	3.125
12	k9	9923123.529	816254.731	1.843
13	k10	9923124.048	816253.707	0.72
14	k11	9923296.738	816300.136	4.612
15	ma1	9923184.782	816256.305	7.48
16	ma2	9923089.74	816380.567	6.175
17	k15	9923089.482	816380.329	3.293
18	k16	9923118.786	816300.576	1.646
19	k17	9923118.833	816300.06	0.341
20	k18	9923100.733	816344.634	2.753

Site Lere

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9902232	816683	1.768
2	p2	9902114	816671	1.976
3	ma1	9902237.642	816550.694	5.765
4	k1	9902237.899	816551.271	2.112
5	k2	9902282.887	816572.024	-0.215
6	k3	9902244.02	816553.475	1.681
7	k4	9902244.041	816553.519	1.679
8	k5	9902276.467	816599.353	-0.053
9	k6	9902236.479	816580.576	1.671
10	k7	9902271.742	816614.25	-0.125
11	k8	9902233.01	816599.018	1.711
12	k9	9902230.875	816626.184	1.782
13	k10	9902267.519	816641.943	-0.116
14	k11	9902229.694	816659.172	1.807
15	k12	9902266.237	816663.499	-0.067
16	k13	9902227.273	816703.584	1.868
17	k14	9902245.618	816710.936	0.28
18	k15	9902139.617	816640.307	1.919
19	k16	9902161.507	816650.579	1.841
20	k17	9902124.653	816666.421	1.891
21	k18	9902183.159	816660.752	1.812
22	k19	9902193.88	816665.782	1.875
23	p3	9902002.621	816666.84	2.722
24	2k1	9902109.143	816698.074	1.57
25	ma2	9902109.174	816698.139	6.217
26	ma3	9902109.152	816698.136	3.796
27	3k1	9902030.336	816619.03	2.573
28	3k2	9902055.912	816576.535	2.363
29	3k3	9902082.962	816531.283	2.438
30	p4	9902069.675	816523.554	2.939
31	4k1	9902059.08	816516.452	2.685
32	4k2	9902039.996	816504.855	2.676
33	4k3	9902018.266	816492.62	2.776

Site Loli Dondo

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9919044	809068	1.894
2	p2	9919014	809048	2.339
3	sp1	9919024.621	809081.699	-0.024
4	sp2	9919046.655	809085.848	0.061
5	sp3	9919074.318	809086.296	0.048
6	j1	9919044.304	809045.955	2.469
7	j2	9919067.365	809047.023	2.758
8	k1	9919069.173	809070.079	2.415
9	k2	9919042.461	809039.657	2.775
10	ma1	9919069.294	809070.065	3.826
11	k3	9919039.975	809022.421	2.703
12	k4	9919039.19	809007.145	3.701

Loli Saluran

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9913325	811085	2.122
2	p2	9913377	811051	2.313
3	sp1	9913352.188	811111.416	0.051
4	sp2	9913362.442	811101.002	-0.033
5	sp3	9913382.456	811062.954	1.744
6	sp4	9913372.691	811064.36	1.821
7	sp5	9913363.247	811076.58	1.787
8	sp6	9913349.11	811097.946	1.986
9	sp7	9913385.69	811071.579	-0.026
10	sp8	9913333.002	811101.691	2.034
11	k1	9913316.527	811072.631	2.117
12	k2	9913302.187	811057.099	2.329
13	k3	9913295.185	811051.89	2.497
14	k4	9913285.568	811041.378	2.29
15	k5	9913271.486	811016.892	2.239
16	k6	9913261.469	811011.613	2.381
17	k7	9913255.268	811007.944	3.43
18	jln	9913328.55	811023.658	2.177
19	jln1	9913338.751	811016.858	2.191

Site Silae

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9903227	815523	4.66
2	p2	9903195	815593	2.379
3	sp1	9903240.5	815578.432	0.83
4	k1	9903239.972	815578.494	2.312
5	k2	9903246.94	815596.857	2.208
6	k3	9903223.151	815610.977	1.919
7	k4	9903234.222	815562.469	2.543
8	k5	9903237.807	815546.344	3.586
9	k6	9903217.842	815553.447	3.381
10	k7	9903213.666	815530.395	4.276
11	k8	9903208.333	815528.038	4.573
12	k9	9903225.121	815518.702	4.629
13	k10	9903222.504	815512.969	4.763
14	k11	9903214.606	815491.965	5.099
15	k12	9903213.419	815481.302	5.501

Site Taipa

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9913782	818172	2.017
2	p2	9913658	818227	3.012
3	ma1	9913733.565	818133.897	9.891
4	ma2	9913816.423	818147.224	10.715
5	k1	9913790.202	818144.848	2.113
6	k2	9913804.713	818163.806	2.295
7	k3	9913813.776	818180.973	2.859
8	k4	9913822.441	818203.86	3.932
9	k5	9913770.476	818158.406	2.032
10	k6	9913765.303	818150.367	-0.021
11	k7	9913753.205	818157.613	0
12	k8	9913757.862	818164.696	2.009
13	k9	9913743.804	818171.985	2.015
14	k10	9913740.39	818162.928	0
15	k11	9913723.941	818167.329	0
16	k12	9913729.468	818179.823	2.024
17	2k1	9913686.943	818189.55	2.05
18	2k2	9913684.969	818202.822	3.876
19	2k3	9913692.588	818220.367	4.112
20	2k4	9913697.132	818231.569	4.058
21	2k5	9913700.623	818242.076	4.413
22	2k6	9913707.607	818254.412	4.814
23	2k7	9913709.059	818257.642	5.252
24	2k8	9913711.58	818260.528	5.342
25	2k9	9913717.729	818268.803	5.413
26	2k10	9913736.736	818279.74	5.304
27	2k11	9913665.714	818258.48	4.355
28	2k12	9913665.712	818258.473	4.355
29	2k13	9913678.883	818299.168	5.655

Site Tipo

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9904359	815003	4.133
2	p2	9904405	814992	4.069
3	sp1	9904405.448	815039.513	0.013
4	k1	9904380.222	815027.779	0.492
5	k2	9904376.366	815023.135	1.5
6	k3	9904371.178	815017.664	2.232
7	k4	9904367.47	815014.451	3.539
8	k5	9904356.253	814998.747	4.538
9	k6	9904352.664	814993.458	4.666
10	k7	9904347.621	814984.189	5.36
11	k8	9904339.923	814969.645	6.249
12	k9	9904332.519	814954.665	6.775
13	k10	9904327.309	814943.059	7.761
14	k11	9904321.171	814929.599	8.544
15	k12	9904344.843	814969.45	5.929
16	k13	9904337.67	815012.325	4.47
17	k14	9904309.529	815031.891	4.356
18	k15	9904272.688	815053.504	4.011
19	k16	9904236.116	815072.104	4.07

Site Watusampu

Number	Name	Grid Northing (m)	Grid Easting (m)	Elevation (m)
1	p1	9909025	812845	3.228
2	p2	9908967	812850	3.372
3	sp1	9908978.609	812869.515	0.038
4	sp2	9908974.09	812880.936	0.011
5	j1	9908969.891	812854.824	3.315
6	j2	9908994.91	812853.632	3.156
7	j3	9909025.08	812856.059	3.216
8	sp4	9909026.195	812868.619	0.099
9	k1	9909053.979	812859.544	3.863
10	ma1	9909054.444	812860.084	10.606
11	sp8	9909048.203	812877.724	0.077
12	k2	9909049.64	812831.78	4.478
13	ma2	9909050.54	812830.926	8.269
14	k3	9909069.929	812842.624	4.892
15	k4	9909024.18	812833.301	3.481
16	k5	9909022.175	812821.383	4.21
17	k6	9909019.315	812801.93	5.993
18	k7	9909018.089	812794.301	6.634
19	k8	9909018.248	812780.407	7.792

Instruments and survey activity

Interview with eyewitnesses