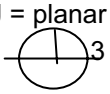
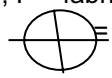
GSA Data Repository Table 1: Field data for Crack and Rock characteristics. See text of manuscript fo

[1]Each clast was assigned a unique number for each field trip. Letters indicate a different crack-set or c

[2] Crack Width (mm) : i = <.1; t = .1-1; m = 1-3; l = 3+

[3] Crack type: B = longitudinal; J = planar surface-parallel; F = fabric; O = other; M = meridional

[4] Encircles stone 1=  2 =  3 =  =  = separated

[5] Unless otherwise noted, crack dip was 90º +/- 30º

--- = data not collected for this property

	Clast Number[1]	Age of Surface	Rock Type	Clast Width (cm)	Clast Length (cm)
Site 1	1	Late Pleistocene	basalt	13	17
Angela's Flow	2	Late Pleistocene	basalt	10	15.5
Cima	3	Late Pleistocene	basalt	12	14
	4	Late Pleistocene	basalt	22	31
	5	Late Pleistocene	basalt	21	28.5
	6	Late Pleistocene	basalt	17	28
	7	Late Pleistocene	basalt	24	30
	8	Late Pleistocene	basalt	18	31
	9	Late Pleistocene	basalt	14.5	25.5
	10	Late Pleistocene	basalt	10	11
	11	Late Pleistocene	basalt	5	8.5
	12	Late Pleistocene	basalt	32	34
	13	Late Pleistocene	basalt	8	9
	14	Late Pleistocene	basalt	6	6
	15	Late Pleistocene	basalt	8	10
	16	Late Pleistocene	basalt	6.5	14
	17	Late Pleistocene	basalt	9	14
	18	Late Pleistocene	basalt	8	12.5
	19	Late Pleistocene	basalt	8	12
	20	Late Pleistocene	basalt	6	7
	21	Late Pleistocene	basalt	18	34
	22	Late Pleistocene	basalt	19	24
	23	Late Pleistocene	basalt	14	22
	25	Late Pleistocene	basalt	23	38
	26	Late Pleistocene	basalt	20	38
	27a	Late Pleistocene	basalt	22	31
	27b	Late Pleistocene	basalt	22	31
	28	Late Pleistocene	basalt	13.5	19
Site 2	1a	Early Holocene	gneiss	30	77
McDonald's	1b	Early Holocene	gneiss	30	77
VX Fans	2a	Early Holocene	metasedimentary	34	51
Providence Mtn	2b	Early Holocene	metasedimentary	34	51
	3a	Early Holocene	volcanic	18	35
	3b	Early Holocene	volcanic	18	35
	4a	Early Holocene	volcanic	33	44
	4b	Early Holocene	volcanic	33	44
	5	Early Holocene	granite	30	33
	6a	Early Holocene	limestone	37	40
	6b	Early Holocene	limestone	37	40

	7a	Early Holocene	volcanic	16	31
	7b	Early Holocene	volcanic	16	31
	8a	Early Holocene	limestone	28	37
	8b	Early Holocene	limestone	28	37
	9	Early Holocene	granite	18	25
	10a	Early Holocene	limestone	18	22
	10b	Early Holocene	limestone	18	22
	11a	Early Holocene	volcanic	27	35
	11b	Early Holocene	volcanic	27	35
	12a	Early Holocene	granite	50	54
	12b	Early Holocene	granite	50	54
	12c	Early Holocene	granite	50	54
	13	Early Holocene	volcanic	18	40
	14a	Early Holocene	granite	12	15
	14b	Early Holocene	granite	12	15
	15a	Early Holocene	granite	12	34
	15b	Early Holocene	granite	12	34
	16a	Early Holocene	granite	21	49
	16b	Early Holocene	granite	21	49
	16c	Early Holocene	granite	21	49
	17a	Early Holocene	granite	21	36
	17b	Early Holocene	granite	21	36
	17c	Early Holocene	granite	21	36
	17d	Early Holocene	granite	21	36
	18a	Early Holocene	mvolcanic	31	60
	18b	Early Holocene	mvolcanic	31	60
	18c	Early Holocene	mvolcanic	31	60
	19a	Early Holocene	volcanic	20	35
	19b	Early Holocene	volcanic	20	35
Site 3	1a	Early Holocene	granite	36	57
Eric's	1b	Early Holocene	granite	36	57
QM-QF6	2	Early Holocene	granite	10	11.5
Providence Mtn	3	Early Holocene	granite	13.5	15.5
	4	Early Holocene	granite	12	34
	5	Early Holocene	granite	13	20
	6	Early Holocene	granite	12	25
	7	Early Holocene	granite	5	5
	8	Early Holocene	granite	29	39
	9a	Early Holocene	granite	23	40
	9b	Early Holocene	granite	23	40
	10a	Early Holocene	granite	11	26
	10b	Early Holocene	granite	11	26
	11	Early Holocene	granite	12	30
	12	Early Holocene	granite	10	29
	13a	Early Holocene	granite	36	37
	13b	Early Holocene	granite	36	37
	14a	Early Holocene	granite	30	46
	14b	Early Holocene	granite	30	46
	15a	Early Holocene	granite	29	44
	15b	Early Holocene	granite	29	44
	16	Early Holocene	granite	34	11
	17	Early Holocene	granite	27	40

	18	Early Holocene	granite	24	57
	19	Early Holocene	granite	59	91
	20a	Early Holocene	granite	45	57
	20b	Early Holocene	granite	45	57
	21	Early Holocene	granite	13	17
	22a	Early Holocene	granite	20	30
	22b	Early Holocene	granite	20	30
Site 4	1	Late Pleistocene	basalt	4.5	6
Continuation of	2	Late Pleistocene	basalt	6	8
Angela's Flow	3	Late Pleistocene	basalt	9	9.5
Cima	4	Late Pleistocene	basalt	10	16
	5	Late Pleistocene	basalt	16	21
	6	Late Pleistocene	basalt	19	24
	7	Late Pleistocene	basalt	3.5	11
	8a	Late Pleistocene	basalt	12	14.5
	8b	Late Pleistocene	basalt	12	14.5
	9	Late Pleistocene	basalt	7.5	12
	10	Late Pleistocene	basalt	16.5	22
	11	Late Pleistocene	basalt	6	9
	12	Late Pleistocene	basalt	19	28
	13	Late Pleistocene	basalt	10	15
	14	Late Pleistocene	basalt	12	21
	15	Late Pleistocene	basalt	8	17
	16	Late Pleistocene	basalt	13	14
	17	Late Pleistocene	basalt	8	11
	18	Late Pleistocene	basalt	7	11.5
	19	Late Pleistocene	basalt	13	13.5
	20	Late Pleistocene	basalt	13	16
	21	Late Pleistocene	basalt	27	28
	22	Late Pleistocene	basalt	9	10
	23	Late Pleistocene	basalt	7	10
	24	Late Pleistocene	basalt	5	11
Site 5	1	Middle to Late Holocene	quartzite	10	13
Palo Duro	2a	Middle to Late Holocene	quartzite	27	34
	2b	Middle to Late Holocene	quartzite	27	34
	3	Middle to Late Holocene	volcanic	10	13
	4	Middle to Late Holocene	limestone	14	17
	5a	Middle to Late Holocene	basalt	70	110
	5b	Middle to Late Holocene	basalt	70	110
	6a	Middle to Late Holocene	granite	16	27
	6b	Middle to Late Holocene	granite	16	27
	7	Middle to Late Holocene	sandstone	11	20
	8a	Middle to Late Holocene	sandstone	22	36
	8b	Middle to Late Holocene	sandstone	22	36
	9	Middle to Late Holocene	limestone	24	34
	10	Middle to Late Holocene	basalt	14	31
	11a	Middle to Late Holocene	volcanic	19	21
	11b	Middle to Late Holocene	volcanic	19	21
	12	Middle to Late Holocene	basalt	16	26
	13a	Middle to Late Holocene	sandstone	20	28
	13b	Middle to Late Holocene	sandstone	20	28
	14	Middle to Late Holocene	basalt	36	50

	15	Middle to Late Holocene	limestone	12	19
	16a	Middle to Late Holocene	mvolcanic	17	88
	16b	Middle to Late Holocene	mvolcanic	17	88
	17	Middle to Late Holocene	sandstone	11	27
	18a	Middle to Late Holocene	limestone	28	51
	18b	Middle to Late Holocene	limestone	28	51
	18c	Middle to Late Holocene	limestone	28	51
	19a	Middle to Late Holocene	limestone	16	30
	19b	Middle to Late Holocene	limestone	16	30
	19c	Middle to Late Holocene	limestone	16	30
	20a	Middle to Late Holocene	limestone	10	12
	20b	Middle to Late Holocene	limestone	10	12
	21	Middle to Late Holocene	mvolcanic	10	22
	22	Middle to Late Holocene	sandstone	4	22
	23a	Middle to Late Holocene	basalt	37	54
	23b	Middle to Late Holocene	basalt	37	54
	24a	Middle to Late Holocene	sandstone	23	28
	24b	Middle to Late Holocene	sandstone	23	28
	25	Middle to Late Holocene	basalt	12	27
	26	Middle to Late Holocene	gneiss	23	40
	27a	Middle to Late Holocene	granite	27	39
	27b	Middle to Late Holocene	granite	27	39
	27c	Middle to Late Holocene	granite	27	39
	28	Middle to Late Holocene	basalt	14	27
	29	Middle to Late Holocene	sandstone	14	27
	30a	Middle to Late Holocene	sandstone	11	16
	30b	Middle to Late Holocene	sandstone	11	16
	31a	Middle to Late Holocene	sandstone	7	23
	31b	Middle to Late Holocene	sandstone	7	23
	32	Middle to Late Holocene	limestone	17	22
	33a	Middle to Late Holocene	limestone	13	17
	33b	Middle to Late Holocene	limestone	13	17
	34	Middle to Late Holocene	basalt	12	22
Site 6	1a	Early Holocene	granite	20	43
San Bernardino	1b	Early Holocene	granite	20	43
	2	Early Holocene	granite	24	48
	3	Early Holocene	granite	39	46
	4a	Early Holocene	limestone	36	47
	4b	Early Holocene	limestone	36	47
	5a	Early Holocene	granite	58	73
	5b	Early Holocene	granite	58	73
	6a	Early Holocene	gneiss	31	36
	6b	Early Holocene	gneiss	31	36
	7	Early Holocene	granite	44	43
	8a	Early Holocene	granite	80	130
	8b	Early Holocene	granite	80	130
	9a	Early Holocene	gneiss	70	110
	9b	Early Holocene	gneiss	70	110
	9c	Early Holocene	gneiss	70	110
	10a	Early Holocene	granite	65	108
	10b	Early Holocene	granite	65	108
	11a	Early Holocene	metagranite	86	143

	11b	Early Holocene	metagranite	86	143
	12a	Early Holocene	metagranite	50	80
	12b	Early Holocene	metagranite	50	80
	13	Early Holocene	metagranite	53	100
	14a	Early Holocene	granite	74	93
	14b	Early Holocene	granite	74	93
	14c	Early Holocene	granite	74	93
	15a	Early Holocene	granite	46	80
	15b	Early Holocene	granite	46	80
	16a	Early Holocene	gneiss	33	84
	16b	Early Holocene	gneiss	33	84
	17a	Early Holocene	granite	56	59
	17b	Early Holocene	granite	56	59
	17c	Early Holocene	granite	56	59
	18a	Early Holocene	gneiss	25	23
	18b	Early Holocene	gneiss	25	23
	19	Early Holocene	metagranite	44	52
	20	Early Holocene	granite	53	90
	21	Early Holocene	granite	65	74
	22a	Early Holocene	granite	62	80
	22b	Early Holocene	granite	62	80
	23a	Early Holocene	metagranite	47	88
	23b	Early Holocene	metagranite	47	88
	23c	Early Holocene	metagranite	47	88
	24a	Early Holocene	granite	48	57
	24b	Early Holocene	granite	48	57
Site 7	1	Early Holocene	quartzite	19	30
Harrison	2a	Early to Middle Pleistocene	quartzite	17	24
LTER west	2b	Early to Middle Pleistocene	quartzite	17	24
Sevilleta	3	Early to Middle Pleistocene	quartzite	14	22
	4a	Early to Middle Pleistocene	quartzite	19	24
	4b	Early to Middle Pleistocene	quartzite	19	24
	5	Early to Middle Pleistocene	quartzite	12	27
	6a	Early to Middle Pleistocene	quartzite	15	34
	6b	Early to Middle Pleistocene	quartzite	15	34
	7a	Early to Middle Pleistocene	quartzite	8	22
	7b	Early to Middle Pleistocene	quartzite	8	22
	8a	Early to Middle Pleistocene	metasedimentary	26	32
	8b	Early to Middle Pleistocene	metasedimentary	26	32
	9a	Early to Middle Pleistocene	metasedimentary	44	77
	9b	Early to Middle Pleistocene	metasedimentary	44	77
	9c	Early to Middle Pleistocene	metasedimentary	44	77
	10a	Early to Middle Pleistocene	quartzite	40	60
	10b	Early to Middle Pleistocene	quartzite	40	60
	11	Early to Middle Pleistocene	quartzite	14	22
	12a	Early to Middle Pleistocene	quartzite	32	31
	12b	Early to Middle Pleistocene	quartzite	32	31
	12c	Early to Middle Pleistocene	quartzite	32	31
	13a	Early to Middle Pleistocene	quartzite	45	49
	13b	Early to Middle Pleistocene	quartzite	45	49
	14a	Early to Middle Pleistocene	quartzite	30	57
	14b	Early to Middle Pleistocene	quartzite	30	57

	15a	Early to Middle Pleistocene	quartzite	19	21
	15b	Early to Middle Pleistocene	quartzite	19	21
	16a	Early to Middle Pleistocene	metasedimentary	17	30
	16b	Early to Middle Pleistocene	metasedimentary	17	30
	17a	Early to Middle Pleistocene	quartzite	34	58
	17b	Early to Middle Pleistocene	quartzite	34	58
	18a	Early to Middle Pleistocene	quartzite	47	49
	18b	Early to Middle Pleistocene	quartzite	47	49
	19a	Early to Middle Pleistocene	quartzite	37	79
	19b	Early to Middle Pleistocene	quartzite	37	79
	19c	Early to Middle Pleistocene	quartzite	37	79
	20a	Early to Middle Pleistocene	quartzite	31	66
	20b	Early to Middle Pleistocene	quartzite	31	66
	21a	Early to Middle Pleistocene	quartzite	33	45
	21b	Early to Middle Pleistocene	quartzite	33	45
	22	Early to Middle Pleistocene	quartzite	34	55
	23	Early to Middle Pleistocene	metasedimentary	21	25
Site 8	1	Early to Middle Pleistocene	granite	44	50
Los Pinos	2	Early Holocene	granite	36	41
West side	3a	Early Holocene	granite	43	44
	3b	Early Holocene	granite	43	44
	4a	Early Holocene	granite	56	62
	4b	Early Holocene	granite	56	62
	5a	Early Holocene	granite	53	73
	5b	Early Holocene	granite	53	73
	6a	Early Holocene	granite	47	62
	6b	Early Holocene	granite	47	62
	7a	Early Holocene	granite	36	42
	7b	Early Holocene	granite	36	42
	8a	Early Holocene	granite	40	57
	8b	Early Holocene	granite	40	57
	8c	Early Holocene	granite	40	57
	9a	Early Holocene	granite	41	57
	9b	Early Holocene	granite	41	57
	9c	Early Holocene	granite	41	57
	10a	Early Holocene	granite	32	57
	10b	Early Holocene	granite	32	57
	10c	Early Holocene	granite	32	57
	11a	Early Holocene	granite	56	59
	11b	Early Holocene	granite	56	59
	11c	Early Holocene	granite	56	59
	12a	Early Holocene	volcanic	52	55
	12b	Early Holocene	volcanic	52	55
	13a	Early Holocene	granite	30	77
	13b	Early Holocene	granite	30	77
	14a	Early Holocene	granite	71	84
	14b	Early Holocene	granite	71	84
	14c	Early Holocene	granite	71	84
	15a	Early Holocene	granite	53	87
	15b	Early Holocene	granite	53	87
	15c	Early Holocene	granite	53	87
	16a	Early Holocene	metagranite	42	53

16b	Early Holocene	metagranite	42	53
17	Early Holocene	granite	39	87
18	Early Holocene	granite	42	62
19a	Early Holocene	granite	50	114
19b	Early Holocene	granite	50	114
20	Early Holocene	granite	54	68
21a	Early Holocene	granite	66	68
21b	Early Holocene	granite	66	68
22	Early Holocene	granite	85	104
23a	Early Holocene	granite	45	58
23b	Early Holocene	granite	45	58
23c	Early Holocene	granite	45	58
24	Early Holocene	granite	34	67
25a	Early Holocene	granite	42	60
25b	Early Holocene	granite	42	60
26	Early Holocene	granite	47	69
27	Early Holocene	granite	38	60
28a	Early Holocene	metagranite	44	49
28b	Early Holocene	metagranite	44	49
28c	Early Holocene	metagranite	44	49
29	Early Holocene	granite	52	83
30a	Early Holocene	granite	71	78
30b	Early Holocene	granite	71	78
31a	Early Holocene	granite	33	52
31b	Early Holocene	granite	33	52
32a	Early Holocene	granite	66	80
32b	Early Holocene	granite	66	80
33a	Early Holocene	granite	40	42
33b	Early Holocene	granite	40	42
33c	Early Holocene	granite	40	42
34	Early Holocene	granite	57	98
35a	Early Holocene	granite	62	101
35b	Early Holocene	granite	62	101
36a	Early Holocene	granite	54	60
36b	Early Holocene	granite	54	60
37a	Early Holocene	granite	42	63
37b	Early Holocene	granite	42	63
38a	Early Holocene	granite	45	52
38b	Early Holocene	granite	45	52
39a	Early Holocene	granite	46	54
39b	Early Holocene	granite	46	54
39c	Early Holocene	granite	46	54
40a	Early Holocene	granite	47	64
40b	Early Holocene	granite	47	64
41a	Early Holocene	gneiss	41	66
41b	Early Holocene	gneiss	41	66
41c	Early Holocene	gneiss	41	66
42a	Early Holocene	granite	58	66
42b	Early Holocene	granite	58	66
42c	Early Holocene	granite	58	66
43a	Early Holocene	granite	22	53
43b	Early Holocene	granite	22	53

	44a	Early Holocene	granite	39	42
	44b	Early Holocene	granite	39	42
	45a	Early Holocene	granite	56	77
	45b	Early Holocene	granite	56	77
	45c	Early Holocene	granite	56	77
	46	Early Holocene	granite	58	70
	47a	Early Holocene	granite	43	69
	47b	Early Holocene	granite	43	69
	48a	Early Holocene	granite	35	52
	48b	Early Holocene	granite	35	52
	49a	Early Holocene	granite	56	74
	49b	Early Holocene	granite	56	74
	49c	Early Holocene	granite	56	74
	50a	Early Holocene	granite	38	47
	50b	Early Holocene	granite	38	47
	51a	Early Holocene	granite	86	99
	51b	Early Holocene	granite	86	99
	51c	Early Holocene	granite	86	99
	52a	Early Holocene	granite	62	90
	52b	Early Holocene	granite	62	90
	53a	Early Holocene	granite	47	113
	53b	Early Holocene	granite	47	113
	53c	Early Holocene	granite	47	113
Site 9	1a	Late Pleistocene	granite	86	114
Sandia Mountai	1b	Late Pleistocene	granite	86	114
Piedmont	2a	Late Pleistocene	granite	54	68
above Elrich	2b	Late Pleistocene	granite	54	68
	3a	Late Pleistocene	granite	50	55
	3b	Late Pleistocene	granite	50	55
	3c	Late Pleistocene	granite	50	55
	4a	Late Pleistocene	granite	34	48
	4b	Late Pleistocene	granite	34	48
	5	Late Pleistocene	granite	170	217
	6a	Late Pleistocene	granite	43	90
	6b	Late Pleistocene	granite	43	90
	7a	Late Pleistocene	granite	100	180
	7b	Late Pleistocene	granite	100	180
	8a	Late Pleistocene	granite	70	90
	8b	Late Pleistocene	granite	70	90
	9a	Late Pleistocene	granite	44	92
	9b	Late Pleistocene	granite	44	92
	9c	Late Pleistocene	granite	44	92
	10a	Late Pleistocene	granite	70	160
	10b	Late Pleistocene	granite	70	160
	11a	Late Pleistocene	granite	87	90
	11b	Late Pleistocene	granite	87	90
	11c	Late Pleistocene	granite	87	90
	11d	Late Pleistocene	granite	87	90
	12a	Late Pleistocene	granite	90	107
	12b	Late Pleistocene	granite	90	107
	13a	Late Pleistocene	granite	60	68
	13b	Late Pleistocene	granite	60	68

	13c	Late Pleistocene	granite	60	68
Site 10	1a	Latest Holocene	volcanic	18	32
San Lorenzo	1b	Latest Holocene	volcanic	18	32
Wash	2	Latest Holocene	conglomerate	22	27
	3a	Latest Holocene	volcanic	17	25
	3b	Latest Holocene	volcanic	17	25
	3c	Latest Holocene	volcanic	17	25
	4a	Latest Holocene	volcanic	25	44
	4b	Latest Holocene	volcanic	25	44
	4c	Latest Holocene	volcanic	25	44
	4d	Latest Holocene	volcanic	25	44
	4e	Latest Holocene	volcanic	25	44
	5a	Latest Holocene	basalt	26	46
	5b	Latest Holocene	basalt	26	46
	5c	Latest Holocene	basalt	26	46
	5d	Latest Holocene	basalt	26	46
	6a	Latest Holocene	volcanic	20	28
	6b	Latest Holocene	volcanic	20	28
	6c	Latest Holocene	volcanic	20	28
	6d	Latest Holocene	volcanic	20	28
	7a	Latest Holocene	volcanic	14	21
	7b	Latest Holocene	volcanic	14	21
	7c	Latest Holocene	volcanic	14	21
	7d	Latest Holocene	volcanic	14	21
	8a	Latest Holocene	basalt	19	21
	8b	Latest Holocene	basalt	19	21
	8c	Latest Holocene	basalt	19	21
	9a	Latest Holocene	volcanic	15	21
	9b	Latest Holocene	volcanic	15	21
	10a	Latest Holocene	volcanic	24	33
	10b	Latest Holocene	volcanic	24	33
	10c	Latest Holocene	volcanic	24	33
	11a	Latest Holocene	volcanic	25	28
	11b	Latest Holocene	volcanic	25	28
	11c	Latest Holocene	volcanic	25	28
	12a	Latest Holocene	volcanic	25	30
	12b	Latest Holocene	volcanic	25	30
	12c	Latest Holocene	volcanic	25	30
	12d	Latest Holocene	volcanic	25	30
	13a	Latest Holocene	conglomerate	21	24
	13b	Latest Holocene	conglomerate	21	24
	14a	Latest Holocene	conglomerate	20	42
	14b	Latest Holocene	conglomerate	20	42
	15a	Latest Holocene	conglomerate	37	38
	15b	Latest Holocene	conglomerate	37	38
	15c	Latest Holocene	conglomerate	37	38
	16a	Latest Holocene	volcanic	14	21
	16b	Latest Holocene	volcanic	14	21
	17a	Latest Holocene	volcanic	16	22
	17b	Latest Holocene	volcanic	16	22
	18a	Latest Holocene	conglomerate	23	32
	18b	Latest Holocene	conglomerate	23	32

19a	Latest Holocene	volcanic	28	29
19b	Latest Holocene	volcanic	28	29
19c	Latest Holocene	volcanic	28	29
19d	Latest Holocene	volcanic	28	29
20a	Latest Holocene	volcanic	19	26
20b	Latest Holocene	volcanic	19	26
20c	Latest Holocene	volcanic	19	26
21a	Latest Holocene	volcanic	20	25
21b	Latest Holocene	volcanic	20	25
21c	Latest Holocene	volcanic	20	25
22a	Latest Holocene	volcanic	29	34
22b	Latest Holocene	volcanic	29	34
22c	Latest Holocene	volcanic	29	34
23a	Latest Holocene	conglomerate	35	49
23b	Latest Holocene	conglomerate	35	49
23c	Latest Holocene	conglomerate	35	49
23d	Latest Holocene	conglomerate	35	49
24a	Latest Holocene	volcanic	15	23
24b	Latest Holocene	volcanic	15	23
25a	Latest Holocene	volcanic	14	22
25b	Latest Holocene	volcanic	14	22
25c	Latest Holocene	volcanic	14	22
26a	Latest Holocene	volcanic	29	48
26b	Latest Holocene	volcanic	29	48
26c	Latest Holocene	volcanic	29	48
27a	Latest Holocene	volcanic	16	21
27b	Latest Holocene	volcanic	16	21
28a	Latest Holocene	conglomerate	17	23
28b	Latest Holocene	conglomerate	17	23
28c	Latest Holocene	conglomerate	17	23
29a	Latest Holocene	conglomerate	28	45
29b	Latest Holocene	conglomerate	28	45
29c	Latest Holocene	conglomerate	28	45
30a	Latest Holocene	volcanic	16	26
30b	Latest Holocene	volcanic	16	26
30c	Latest Holocene	volcanic	16	26
30d	Latest Holocene	volcanic	16	26
30e	Latest Holocene	volcanic	16	26
31a	Latest Holocene	basalt	17	20
31b	Latest Holocene	basalt	17	20
32a	Latest Holocene	volcanic	16	29
32b	Latest Holocene	volcanic	16	29
32c	Latest Holocene	volcanic	16	29
33a	Latest Holocene	volcanic	30	30
33b	Latest Holocene	volcanic	30	30
33c	Latest Holocene	volcanic	30	30
34a	Latest Holocene	volcanic	25	40
34b	Latest Holocene	volcanic	25	40
34c	Latest Holocene	volcanic	25	40
35a	Latest Holocene	volcanic	21	26
35b	Latest Holocene	volcanic	21	26
35c	Latest Holocene	volcanic	21	26

36a	Latest Holocene	volcanic	35	60
36b	Latest Holocene	volcanic	35	60
36c	Latest Holocene	volcanic	35	60
37a	Latest Holocene	volcanic	23	35
37b	Latest Holocene	volcanic	23	35
37c	Latest Holocene	volcanic	23	35
38a	Latest Holocene	volcanic	27	52
38b	Latest Holocene	volcanic	27	52
38c	Latest Holocene	volcanic	27	52
38d	Latest Holocene	volcanic	27	52
39a	Latest Holocene	volcanic	18	27
39b	Latest Holocene	volcanic	18	27
39c	Latest Holocene	volcanic	18	27
40a	Latest Holocene	conglomerate	80	115
40b	Latest Holocene	conglomerate	80	115
40c	Latest Holocene	conglomerate	80	115
40d	Latest Holocene	conglomerate	80	115
41a	Latest Holocene	sandstone	25	30
41b	Latest Holocene	sandstone	25	30
42a	Latest Holocene	volcanic	21	37
42b	Latest Holocene	volcanic	21	37
42c	Latest Holocene	volcanic	21	37
43a	Latest Holocene	volcanic	25	31
43b	Latest Holocene	volcanic	25	31
43c	Latest Holocene	volcanic	25	31
44a	Latest Holocene	conglomerate	40	50
44b	Latest Holocene	conglomerate	40	50
44c	Latest Holocene	conglomerate	40	50
45a	Latest Holocene	sandstone	23	33
45b	Latest Holocene	sandstone	23	33
46a	Latest Holocene	conglomerate	25	30
46b	Latest Holocene	conglomerate	25	30
47a	Latest Holocene	conglomerate	26	45
47b	Latest Holocene	conglomerate	26	45
48a	Latest Holocene	conglomerate	34	46
48b	Latest Holocene	conglomerate	34	46
48c	Latest Holocene	conglomerate	34	46
49a	Latest Holocene	sandstone	25	42
49b	Latest Holocene	sandstone	25	42
49c	Latest Holocene	sandstone	25	42
50a	Latest Holocene	volcanic	25	29
50b	Latest Holocene	volcanic	25	29
50c	Latest Holocene	volcanic	25	29
51a	Latest Holocene	volcanic	19	27
51b	Latest Holocene	volcanic	19	27
51c	Latest Holocene	volcanic	19	27
52a	Latest Holocene	volcanic	22	23
52b	Latest Holocene	volcanic	22	23
53a	Latest Holocene	sandstone	43	51
53b	Latest Holocene	sandstone	43	51
53c	Latest Holocene	sandstone	43	51
54a	Latest Holocene	volcanic	21	30

	54b	Latest Holocene	volcanic	21	30
	54c	Latest Holocene	volcanic	21	30
	55a	Latest Holocene	volcanic	37	47
	55b	Latest Holocene	volcanic	37	47
	55c	Latest Holocene	volcanic	37	47
Site 11	1a	Latest Holocene	granite	25	32
Harquakala	1b	Early-Mid Holocene	granite	25	32
Eagle Eye Fan	2	Early-Mid Holocene	granite	26	35
	3a	Early-Mid Holocene	granite	45	89
	3b	Early-Mid Holocene	granite	45	89
	4	Early-Mid Holocene	gneiss	35	46
	5a	Early-Mid Holocene	granite	18	34
	5b	Early-Mid Holocene	granite	18	34
	5c	Early-Mid Holocene	granite	18	34
	5d	Early-Mid Holocene	granite	18	34
	6a	Early-Mid Holocene	granite	36	54
	6b	Early-Mid Holocene	granite	36	54
	6c	Early-Mid Holocene	granite	36	54
	6d	Early-Mid Holocene	granite	36	54
	7a	Early-Mid Holocene	metagranite	24	31
	7b	Early-Mid Holocene	metagranite	24	31
	7c	Early-Mid Holocene	metagranite	24	31
	8a	Early-Mid Holocene	metagranite	40	37
	8b	Early-Mid Holocene	metagranite	40	37
	8c	Early-Mid Holocene	metagranite	40	37
	8d	Early-Mid Holocene	metagranite	40	37
	9a	Early-Mid Holocene	granite	22	42
	9b	Early-Mid Holocene	granite	22	42
	9c	Early-Mid Holocene	granite	22	42
	10a	Early-Mid Holocene	granite	30	32
	10b	Early-Mid Holocene	granite	30	32
	11a	Early-Mid Holocene	granite	37	52
	11b	Early-Mid Holocene	granite	37	52
	11c	Early-Mid Holocene	granite	37	52
	11d	Early-Mid Holocene	granite	37	52
	11e	Early-Mid Holocene	granite	37	52
	12a	Early-Mid Holocene	gneiss	10	34
	12b	Early-Mid Holocene	gneiss	10	34
	13a	Early-Mid Holocene	granite	75	98
	13b	Early-Mid Holocene	granite	75	98
	13c	Early-Mid Holocene	granite	75	98
	13d	Early-Mid Holocene	granite	75	98
	13e	Early-Mid Holocene	granite	75	98
	14a	Early-Mid Holocene	granite	28	44
	14b	Early-Mid Holocene	granite	28	44
	14c	Early-Mid Holocene	granite	28	44
	15	Early-Mid Holocene	granite	33	50
	16a	Early-Mid Holocene	granite	47	59
	16b	Early-Mid Holocene	granite	47	59
	16c	Early-Mid Holocene	granite	47	59
	16d	Early-Mid Holocene	granite	47	59
	16e	Early-Mid Holocene	granite	47	59

17a	Early-Mid Holocene	metagranite	53	110
17b	Early-Mid Holocene	metagranite	53	110
17c	Early-Mid Holocene	metagranite	53	110
18a	Early-Mid Holocene	metagranite	28	51
18b	Early-Mid Holocene	metagranite	28	51
18c	Early-Mid Holocene	metagranite	28	51
18d	Early-Mid Holocene	metagranite	28	51
18e	Early-Mid Holocene	metagranite	28	51
19a	Early-Mid Holocene	granite	49	62
19b	Early-Mid Holocene	granite	53	62
20a	Early-Mid Holocene	metagranite	24	34
20b	Early-Mid Holocene	metagranite	24	34
21a	Early-Mid Holocene	metagranite	52	60
21b	Early-Mid Holocene	metagranite	52	60
21c	Early-Mid Holocene	metagranite	52	60
21d	Early-Mid Holocene	metagranite	52	60
21e	Early-Mid Holocene	metagranite	52	60
21f	Early-Mid Holocene	metagranite	52	60
22a	Early-Mid Holocene	granite	25	45
22b	Early-Mid Holocene	granite	25	45
22c	Early-Mid Holocene	granite	25	45
22d	Early-Mid Holocene	granite	25	45
23a	Early-Mid Holocene	granite	24	33
23b	Early-Mid Holocene	granite	24	33
24a	Early-Mid Holocene	granite	18	37
24b	Early-Mid Holocene	granite	18	37
24c	Early-Mid Holocene	granite	18	37
25a	Early-Mid Holocene	granite	30	46
25b	Early-Mid Holocene	granite	30	46
26a	Early-Mid Holocene	granite	34	51
26b	Early-Mid Holocene	granite	34	51
26c	Early-Mid Holocene	granite	34	51

for methodology and locations of field sites.

crack observed for the same clast.

Max clast height above surface (cm)	Avg. clast Depth below surface (cm)	Crack width[2]	Crack Type[3]	Encircles Stone[4]	Strike of clast long axis (º)	Strike Fabric (º)
4	3	m	O	---	225	---
3.5	3	l	O	---	335	---
5.5	3	l	O	---	300	---
7.5	6.5	m	O	---	98	---
4	6	m	M	---	300	---
5.5	6	l	M	---	40	---
3.5	3	m	M	---	90	---
11	5	m	J	---	30	---
7.5	4.5	m	M	---	75	---
2.5	4	t	M	---	45	---
2	2.5	m	O	---	345	---
11	4.5	m	O	---	36	---
1	3	t	M	---	10	---
2	2	t	O	---	5	---
3.5	3	m	M	---	300	---
3	3.5	m	B	---	237	---
2	3	l	M	---	265	---
4	2	t	M	---	232	---
3.5	2.5	t	O	---	10	---
3.5	1.5	t	O	---	355	---
5	4	m	M	---	105	---
10	3	m	M	---	70	---
6	3	m	B	---	170	---
15	3.5	l	M	---	82	---
24	10	l	M	---	25	---
5	9	m	O	---	---	---
5	9	m	O	---	---	---
8	3	m	O	---	350	---
36	5	t	M	---	295	---
36	5	t	J	---	295	---
34	5	m	F	---	20	100
34	5	m	B	---	100	100
15	5	l	B	---	25	---
15	5	t	M	---	25	---
10	5	m	O	---	0	---
10	5	t	M	---	0	---
13	5	m	M	---	90	---
20	5	m	M	---	45	---
20	5	m	O	---	45	---

15	5	m	bj	---	330	---
15	5	t	O	---	330	---
21	---	m	O	---	20	---
21	---	m	M	---	20	---
16	---	m	M	---	55	---
4	4.5	m	F	---	355	---
4	4.5	m	F	---	355	---
4.5	---	m	B	---	80	---
4.5	---	m	O	---	80	---
38	---	m	M	---	340	---
38	---	m	M	---	340	---
38	---	m	O	---	340	---
13	5	t	O	---	15	---
11	3.5	m	O	---	340	---
11	3.5	m	M	---	340	---
4	---	m	B	---	25	---
4	---	m	B	---	25	---
17	5	m	O	---	350	---
17	5	t	O	---	350	---
17	5	t	M	---	350	---
17	5	t	B	---	60	---
17	5	t	M	---	60	---
17	5	t	J	---	60	---
17	5	t	J	---	60	---
17.5	---	t	b,f	---	25	---
17.5	---	t	F	---	25	---
17.5	---	t	F	---	25	---
12	5	m	M	---	345	---
12	5	t	M	---	345	---
9	5	m	B	---	80	---
9	5	m	B	---	80	---
3	3.5	m	O	---	10	---
3	8	t	M	---	300	---
9	5	t	M	---	350	---
2.5	5	m	M	---	345	---
2	8	l	O	---	355	---
1	4.5	m	O	---	305	---
22	4	t	M	---	340	---
7	5	m	O	---	305	---
7	5	t	B	---	305	---
3	5	t	O	---	310	---
3	5	m	B	---	310	---
3	5	m	M	---	355	---
7	4	m	M	---	335	---
20	5	m	O	---	30	---
20	5	t	J	---	30	---
9	5	t	O	---	195	---
9	5	t	B	---	195	---
22	5	t	M	---	336	---
22	5	t	O	---	336	---
13	---	l	O	---	330	---
14	5	m	B	---	60	---

24	5	l	M	---	10	---
42	5	t	M	---	350	---
20	5	l	O	---	310	---
20	5	t	O	---	310	---
9	9	t	M	---	295	---
6	5	t	O	---	15	---
6	5	t	M	---	15	---
2	1	m	M	---	110	---
3	1	m	M	---	350	---
4	1.5	l	M	---	5	---
7	3	l	O	---	30	---
10	3	m	M	---	260	---
5	4	l	M	---	275	---
1.5	2	m	M	---	28	---
6	1.5	m	M	---	330	---
6	1.5	m	O	---	330	---
5	2.5	m	M	---	70	---
8	5	l	O	---	55	---
3.5	5	m	M	---	28	---
4.5	9	m	M	---	15	---
4.5	5	l	M	---	250	---
13	2.5	m	O	---	3	---
5.5	4	m	B	---	60	---
7	3.5	m	O	---	70	---
5	2.5	t	O	---	60	---
2.5	4.5	t	O	---	330	---
3	4	t	M	---	70	---
5.5	1.5	t	O	---	320	---
9	4	t	O	---	335	---
4	1.5	m	M	---	2	---
2.5	3	t	M	---	250	---
3.5	2	m	B	---	45	---
4	1	t	M	1	95	---
10	5	t	BJ	1	30	---
10	5	t	J	1	30	---
2	2	t	O	3	30	---
2	3	i	BJ	3	75	---
30	10	t	M	2	15	---
30	10	t	O	2	15	---
10	5	t	M	4	70	---
10	5	t	B	4	70	---
3	0.5	m	BJ	4	35	---
15	10	m	J	1	345	45
15	10	t	M	1	345	---
6	10	i	BO	1	40	---
2	3	i	BJ	1	90	---
9	7	t	M	3	---	---
9	7	t	O	3	---	---
5	1	i	O	3	290	---
16	---	i	B	1	0	---
16	---	m	F	---	0	---
16	10	i	B	1	30	---

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1	3	i	M	1	55	---
15	10	l	F	2	20	260
15	10	t	B	2	20	---
7	5	t	Fm	---	20	20
6	6	t	M	2	90	---
6	6	t	O	1	90	---
6	6	i	M	3	90	---
5	5	i	B	1	320	---
5	5	i	O	3	320	---
5	5	i	M	1	320	---
4	7	t	O	3	---	---
4	7	t	O	3	---	---
4	5	i	Jm	3	40	40
9	5	t	M	3	350	---
24	10	t	M	3	5	---
24	10	t	O	1	5	---
4	5	t	Bm	2	355	90
4	5	t	F	2	355	90
7	4	i	B	1	3	---
9	---	i	BJ	1	2	4
6	---	m	M	2	5	---
6	---	i	O	1	5	---
6	---	t	J	0	5	---
10	14	t	F	3	355	315
5	3	t	B	3	350	---
3	5	---	M	0	110	---
3	---	i	F	3	110	---
3	---	i	B	1	86	---
3	1	t	M	1	86	---
6	6	i	O	1	30	---
6	7	m	M	4	30	---
6	7	m	O	4	30	---
6	6	i	M	1	18	---
14	3	m	B	4	30	---
14	3	m	J	2	30	---
17	5	l	bm	0	337	---
12	5	l	M	3	88	---
14	5	t	F	2	---	---
14	5	---	M	2	---	---
12	5	l	M	2	9	---
12	5	m	O	2	9	---
12	5	l	M	0	29	---
12	5	l	F	0	29	---
12	5	t	M	1	---	---
50	5	t	B	1	60	---
50	5	l	J	2	60	---
61	5	t	B	1	52	---
61	5	t	F	1	52	---
61	5	t	M	1	52	---
89	5	m	B	1	14	---
89	5	t	J	2	14	---
55	5	t	M	2	83	92

55	5	t	F	1	83	---
43	5	t	BF	---	79	79
43	5	i	M	---	79	---
51	5	i	M	1	308	308
64	5	t	M	2	---	---
64	5	t	O	1	---	---
64	5	t	O	1	---	---
47	5	---	M	2	84	---
47	5	t	BJ	2	84	---
32	5	m	M	2	109	109
32	5	t	BF	1	109	---
18	5	l	M	2	---	---
18	5	i	J	1	---	---
18	5	i	J	1	---	---
6	5	t	O	0	---	4
6	5	i	F	1	---	---
37	5	t	M	---	72	130
35	5	---		---	58	---
35	5	l	M	0	114	---
27	5	i	M	1	344	---
27	5	l	O	1	344	---
43	5	l	O	0	0	62
43	5	i	Bm	1	0	---
43	5	l	J	0	0	---
53	5	i	M	2	47	---
53	5	t	J	2	47	---
8	5	t	M	3	16	---
6	5	t	M	2	---	---
6	5	t	M	1	---	---
8	5	i	M	2	---	---
2	5	t	B	1	295	---
2	5	i	O	1	295	---
5	5	l	M	0	280	---
8	5	i	BJ	3	284	---
8	5	i	M	1	284	---
5	5	---	F	0	---	293
5	5	i	M	---	---	---
12	5	m	M	3	310	---
12	5	m	M	1	310	---
18	5	m	O	3	308	---
18	5	i	O	2	308	---
18	5	i	M	1	308	---
27	5	m	M	4	301	---
27	5	t	BJ	2	301	---
3	5	t	O	3	7	---
22	5	t	M	3	---	---
22	5	i	O	2	---	---
22	5	t	J	1	---	---
10	5	l	O	0	---	---
10	5	t	M	3	---	---
21	5	t	B	2	300	---
21	5	t	M	1	300	---

8	5	t	M	3	---	---
8	5	i	J	2	---	---
6	5	i	M	2	355	---
6	5	i	BF	2	355	---
5	5	t	O	2	357	---
5	5	---	Bm	---	357	---
12	5	m	O	4	---	---
12	5	t	O	1	---	---
14	5	t	BF	2	35	---
14	5	t	M	1	35	---
14	5	i	O	1	35	---
17	5	t	B	2	50	---
17	5	t	M	1	50	---
9	5	i	B	2	254	---
9	5	t	O	2	254	---
13	5	i	M	1	22	---
9	---	t	M	2	---	---
15	---	t	J	1	50	---
16	---	t	O	2	---	---
19	---	t	O	2	---	---
19	---	m	J	2	---	---
27	---	t	O	2	---	---
27	---	---	O	---	---	---
39	---	t	B	2	35	---
39	---	m	O	3	35	---
18	---	t	M	3	---	---
18	---	t	O	1	---	---
20	---	t	JO	---	---	---
20	---	t	M	3	---	---
22	---	m	M	3	---	---
22	---	m	M	2	---	---
22	---	---	O	2	---	---
23	---	m	O	2	---	---
23	---	t	J	2	---	---
23	---	m	M	3	---	---
20	---	t	O	2	---	---
20	---	---	O	---	---	---
20	---	---	M	---	---	---
37	---	t	J	2	---	---
37	---	t	M	2	---	---
37	---	t	O	1	---	---
30	---	t	M	1	---	---
30	---	t	O	1	---	---
42	---	t	B	2	340	---
42	---	i	J	2	340	---
59	---	i	M	1	---	---
59	---	t	J	1	---	---
59	---	i	M	---	---	---
35	---	t	F	2	---	---
35	---	i	O	1	---	---
35	---	---	M	---	---	---
22	---	l	M	3	---	---

22	---	---	F	---	---	30
24	---	t	Jm	2	330	---
29	---	t	M	2	---	---
16	---	i	Bm	2	349	---
16	---	i	B	2	349	---
10	---	t	M	2	---	---
27	---	m	M	3	---	---
27	---	t	O	3	---	---
63	---	---	O	---	---	---
23	---	t	M	1	---	---
23	---	t	J	1	---	---
23	---	t	M	2	---	---
17	---	l	O	0	48	---
25	---	m	O	2	---	---
25	---	t	M	2	---	---
32	---	i	O	1	---	---
30	---	t	M	2	---	---
10	---	m	F	2	---	80
10	---	t	M	2	---	---
10	---	t	M	2	---	---
28	---	i	M	1	---	---
29	---	t	O	0	---	---
29	---	m	M	2	---	---
12	---	t	M	2	---	---
12	---	t	M	2	---	---
25	---	t	O	2	---	---
25	---	t	O	3	---	---
11	---	t	M	2	---	---
11	---	t	O	3	---	---
11	---	i	O	1	---	---
32	---	i	M	1	---	---
54	---	t	M	2	---	---
54	---	---	BJ	---	100	---
23	---	t	O	2	---	---
23	---	i	O	1	---	---
26	---	t	M	1	---	---
26	---	t	J	2	---	---
27	---	i	M	2	---	---
27	---	i	M	2	---	---
35	---	t	M	2	---	---
35	---	t	O	2	---	---
35	---	i	O	2	---	---
36	---	t	M	1	---	---
36	---	t	O	1	---	---
51	---	m	F	2	---	45
51	---	i	J	2	---	---
51	---	t	J	3	---	---
28	---	i	O	1	---	---
28	---	t	O	2	---	---
28	---	t	M	---	---	---
15	---	l	B	0	69	---
15	---	i	M	1	---	---

18	---	t	M	1	---	---
18	---	t	J	1	---	---
50	---	t	O	1	---	---
50	---	t	M	1	---	---
50	---	m	J	3	---	---
26	---	t	M	2	---	---
14	---	m	M	3	---	---
14	---	t	M	---	---	---
23	---	i	O	2	---	---
23	---	i	M	---	---	---
38	---	t	M	1	---	---
38	---	t	O	1	---	---
38	---	m	JF	2	---	---
9	---	m	O	0	---	---
9	---	m	O	0	---	---
30	---	l	O	0	---	---
30	---	t	O	3	---	---
30	---	t	O	---	---	---
31	---	l	M	0	---	---
31	---	m	M	3	---	---
58	---	t	M	1	---	60
58	---	t	O	2	---	---
58	---	t	O	1	---	---
40	---	t	O	3	---	---
40	---	i	M	3	---	---
20	---	m	M	4	---	---
20	---	i	O	3	---	---
68	---	t	O	2	---	---
68	---	t	M	4	---	---
68	---	t	J	---	---	---
54	---	t	O	4	---	---
54	---	i	M	2	---	---
60	---	l	M	0	---	---
70	---	t	BJ	1	65	---
70	---	t	M	2	---	---
78	---	t	BO	2	101	---
78	---	i	M	1	---	---
50	---	t	O	4	---	---
50	---	i	M	1	---	---
52	---	m	O	3	---	---
52	---	m	O	3	---	---
52	---	i	M	1	---	---
66	---	i	M	2	---	---
66	---	i	B	1	---	---
90	---	i	M	1	---	---
90	---	---	F	---	---	---
90	---	---	F	---	---	---
90	---	---	F	---	---	---
53	---	t	M	3	---	---
53	---	t	O	2	---	---
60	---	t	M	2	---	---
60	---	t	O	3	---	---

60	---	t	O	3	---	---
11	5	t	B	2	40	---
11	---	---	F	---	40	90
12	5	i	M	1	---	---
7	5	i	JF	1	90	---
7	5	i	B	1	90	---
7	5	i	M	1	90	---
16	---	t	JF	2	285	---
16	---	---	JF	---	285	---
16	---	i	M	1	285	---
16	---	t	M	2	285	---
16	---	i	M	1	285	---
22	---	t	M	2	0	---
22	---	t	B	2	0	---
22	---	i	O	1	0	---
22	---	i	M	1	0	---
12	---	t	M	3	---	---
12	---	t	M	2	---	---
12	---	t	M	1	---	---
12	---	t	O	2	---	---
13	---	i	M	1	315	---
13	---	i	O	1	315	---
13	---	t	O	2	315	---
13	---	i	JF	1	315	---
13	5	i	M	1	---	---
13	5	i	O	1	---	---
13	5	i	M	1	---	---
13	5	i	M	1	---	---
13	5	i	O	1	---	---
14	---	i	M	1	---	---
14	---	t	J	1	---	---
14	---	i	M	1	---	---
13	10	i	FO	2	---	34
13	10	i	M	1	---	---
13	10	i	J	1	---	---
20	10	t	O	2	---	---
20	10	t	M	1	---	---
20	10	i	J	1	---	---
20	10	t	O	1	---	---
12	---	t	M	2	---	---
12	---	m	F	4	---	310
9	---	i	O	1	56	---
9	---	i	B	1	56	---
26	10	m	O	2	---	---
26	10	i	M	1	---	---
26	10	i	M	1	---	---
5	5	i	F	1	---	35
5	5	i	O	1	---	---
11	5	i	O	1	---	---
11	5	i	J	1	---	---
13	10	i	O	1	---	---
13	10	i	M	1	---	---

10	10	i	M	1	---	---
10	10	i	O	2	---	---
10	10	t	O	1	---	---
10	10	i	M	1	---	---
10	5	i	M	2	---	---
10	5	i	O	1	---	---
10	5	i	J	1	---	---
13	10	i	M	1	---	---
13	10	i	J	1	---	---
13	10	i	O	1	---	---
16	---	t	M	2	---	71
16	---	t	J	2	---	---
16	---	i	J	1	---	---
15	---	i	M	1	50	---
15	---	m	M	2	50	---
15	---	m	JF	1	50	---
15	---	i	JF	1	50	---
15	5	i	O	1	80	---
15	5	i	B	1	80	---
11	5	i	O	1	60	---
11	5	i	B	1	60	---
11	5	i	J	1	60	---
10	10	t	M	1	78	---
10	10	t	B	1	78	---
10	10	i	M	2	78	---
11	5	i	M	2	---	---
11	5	i	J	1	---	---
12	5	i	O	2	---	---
12	5	i	M	2	---	---
12	5	i	J	2	---	---
25	10	m	F	2	---	290
25	10	m	O	2	---	---
25	10	m	J	4	---	---
9	5	i	B	2	36	---
9	5	i	M	1	36	---
9	5	t	J	2	36	---
9	5	i	M	1	36	---
9	5	i	O	2	36	---
11	5	i	Fm	1	---	330
11	5	i	J	1	---	---
11	5	i	F	1	---	296
11	5	i	M	1	---	---
11	5	i	O	2	---	---
20	5	i	M	1	---	---
20	5	i	O	1	---	---
20	5	i	M	1	---	---
18	5	t	F	2	---	55
18	5	t	J	2	---	---
18	5	i	M	2	---	---
5	5	t	J	2	---	---
5	5	i	M	1	---	---
5	5	---	M	1	---	---

25	10	t	B	1	2	100
25	10	t	J	1	---	---
25	10	i	J	1	---	---
15	---	i	F	1	---	105
15	---	i	M	1	---	---
15	---	i	O	1	---	---
18	10	t	B	1	16	110
18	10	t	M	1	---	---
18	10	t	O	1	---	---
18	10	t	J	1	---	---
11	5	i	M	2	---	---
11	5	i	O	1	---	---
11	5	i	M	1	---	---
30	10	m	M	2	---	33
30	10	m	J	2	---	---
30	10	t	M	1	---	---
30	10	t	O	1	---	---
5	10	t	O	2	---	---
5	10	i	O	1	---	---
16	10	i	Fm	2	---	349
16	10	i	O	1	---	---
16	10	i	M	1	---	---
14	5	i	O	1	---	---
14	5	i	M	1	---	---
14	5	i	J	1	---	---
18	10	i	O	1	---	24
18	10	---	O	0	---	---
18	10	t	J	1	---	---
12	5	t	O	1	---	---
12	5	t	M	1	---	---
15	10	t	O	2	---	---
15	10	i	M	1	---	---
13	10	i	B	2	10	---
13	10	i	O	1	---	---
18	10	i	M	1	---	---
18	10	i	O	1	---	---
18	10	i	M	1	---	---
18	10	i	B	1	40	---
18	10	i	M	1	---	---
18	10	i	J	1	---	---
14	10	t	M	1	---	---
14	10	i	M	1	---	---
14	10	i	M	2	---	---
11	5	i	F	1	---	35
11	5	t	M	1	---	---
11	5	t	JO	1	---	---
17	10	m	F	1	---	45
17	10	m	M	2	---	---
14	10	t	O	1	---	350
14	10	t	O	1	---	---
14	10	t	M	2	---	---
11	5	t	M	2	---	---

11	5	t	J	2	---	---
11	5	t	F	2	---	---
15	10	t	O	1	---	0
15	10	m	F	2	---	---
15	10	t	M	1	---	---
14	14	i	O	1	---	---
14	14	t	O	3	---	---
9	5	i	M	1	---	---
13	5	i	B	2	---	110
13	5	t	M	3	77	110
15	5	---		---	---	---
14	5	i	B	1	160	---
14	5	t	B	---	---	---
14	5	t	O	3	---	---
14	5	t	J	2	---	---
18	5	t	J	2	15	---
18	5	i	J	2	---	---
18	5	t	J	2	---	---
18	5	---	M	1	---	---
12	12	t	J	3	---	---
12	12	m	J	3	---	---
12	12	i	O	1	---	---
20	12	i	O	1	---	---
20	12	i	O	1	---	---
20	12	t	J	2	---	---
20	12	t	J	2	---	---
12	17	t	O	1	358	---
12	17	t	O	3	---	---
12	17	i	M	1	---	---
8	---	t	O	3	---	---
8	---	t	O	3	---	---
21	5	t	O	1	---	---
21	5	i	M	1	---	---
21	5	i	J	1	---	---
21	5	t	J	2	---	---
21	5	t	J	1	---	---
7	8	i	B	1	195	295
7	8	i	J	1	195	295
53	5	t	M	1	---	---
53	5	t	O	1	---	---
53	5	t	O	1	---	---
53	5	t	J	1	---	---
53	5	t	J	1	---	---
28	---	t	B	1	326	---
28	---	t	O	3	---	---
28	---	i	F	1	---	58
50	5	i	B	1	325	---
53	5	t	O	1	---	---
53	5	t	M	1	---	---
53	5	t	J	1	---	---
53	5	t	J	2	---	---
53	5	t	J	1	---	---

40	5	t	M	1	326	315
40	5	t	M	1	---	---
40	5	---	F	2	---	---
31	---	i	B	1	20	70
31	---	i	J	1	---	---
31	---	t	J	1	---	---
31	---	i	J	1	---	---
31	---	i	JF	1	---	---
22	5	---	M	---	---	---
22	5	---	O	---	---	---
15	5	i	O	1	---	0
15	5	i	M	1	---	---
17	5	i	J	1	---	---
17	5	t	J	3	---	---
17	5	t	M	2	---	---
17	5	t	M	2	---	---
17	5	i	O	1	---	---
17	5	i	J	1	---	---
13	5	i	B	1	0	---
13	5	t	M	1	---	---
13	5	t	M	2	---	---
13	5	i	J	1	---	---
13	5	i	O	1	---	---
13	5	i	O	1	---	---
12	5	i	B	1	268	---
12	5	i	O	1	---	---
12	5	i	M	1	---	---
16	5	m	B	3	298	---
16	5	t	O	2	---	---
15	5	i	B	1	82	---
15	5	i	M	1	---	---
15	5	t	J	1	---	---

Data Repository item 2005026

Strike Crack (º)	Dip Fabric (º)	Dip Crack[5] (º)	Spalling adjacent stones 1=yes 0=no	Rock Spalling 1=yes 0=no	CaCO3 ring 1=yes 0=no	Varnish % cover
305	---		0	0	0	100
55	---		0	0	0	100
300	---		0	0	0	100
98	---		0	0	0	100
20	---		0	0	0	100
10	---		0	0	0	100
347	---		0	0	0	100
100	---		0	0	0	100
335	---		0	0	0	100
30	---		0	0	0	100
62	---		0	0	0	100
36	---		0	0	0	100
10	---		0	0	0	100
120	---		0	0	0	100
4	---		---	0	0	100
320	---		0	0	0	100
357	---		0	0	0	100
347	---		0	0	0	100
65	---		0	0	0	100
63	---		0	0	0	100
345	---		0	---	---	100
340	---		0	---	---	100
178	---		0	---	---	100
356	---		0	0	0	10
25	---		0	0	1	100
320	---		---	---	0	100
35	---		---	---	0	100
310	---		---	---	1	100
15	---		1	0	0	10-15
295	---		---	0	0	---
20	---		1	0	0	5-75
100	---		1	0	0	5-75
55	---		---	1	0	10-90
340	---		---	---	0	---
80	---		1	0	0	10-70
335	---		1	0	0	10-70
355	---		1	1	1	10-50
355	---		1	0	1	0
70	---		1	0	1	0

335	---	---	---	1	10-30
40	---	---	---	1	10-30
305	---	---	---	1	---
20	---	---	---	---	---
10	---	1	1	1	---
2	---	1	0	1	0
85	---	1	0	1	0
75	---	1	0	1	5-15
320	---	1	0	1	5-15
5	---	1	1	---	5
345	---	1	1	---	---
70	---	1	1	---	---
50	---	1	0	---	5-40
66	---	1	0	1	5-50
345	---	1	0	1	5-50
45	---	---	1	1	10-95
10	---	---	1	1	10-95
65	---	1	0	---	5-95
260	---	1	0	---	5-95
25	---	1	0	---	5-95
90	---	---	---	---	50-100
345	---	---	---	---	50-100
60	---	---	---	---	50-100
320	---	---	---	---	50-100
10	---	1	0	---	10-50
125	---	1	0	---	10-50
330	---	1	0	---	10-50
25	---	---	---	---	---
330	---	---	---	---	---
65	---	1	1	0	20
80	---	1	1	0	20
80	---	0	0	---	0
352	---	0	0	---	0
25	---	0	0	---	0
340	---	0	1	---	0
85	---	---	1	---	10
315	---	---	0	---	0
340	---	---	1	---	10
55	---	0	0	---	10-70
310	---	0	0	---	---
40	---	---	1	---	20-50
305	---	---	---	---	---
355	---	0	0	---	20
335	---	---	---	---	10
35	---	---	1	---	10-50
115	---	---	1	---	10-50
295	---	---	1	---	5
195	---	1	1	---	5
346	---	1	1	---	0-100
60	---	1	1	---	---
45	---	1	1	---	5
65	---	1	1	---	0-10

0	---		1	1	---	10-20
26	---		1	1	---	5-80
35	---		1	1	---	5-20
310	---		1	1	---	5-20
25	---		1	0	---	10
58	---		1	1	---	10
30	---		1	1	---	10
15	---		0	0	0	100
350	---		0	0	0	100
5	---		0	0	0	100
300	---		0	0	0	100
25	---	55	0	0	0	100
25	---		0	0	0	100
32	---		0	0	0	100
20	---		0	0	0	100
55	---		0	0	0	100
330	---		0	0	0	100
310	---		0	0	0	100
28	---		0	0	0	100
15	---		0	0	1	100
345	---		0	0	0	100
90	---		0	0	0	100
60	---		0	0	0	100
320	---		0	0	0	100
60	---		0	0	0	100
80	---		0	0	0	100
335	---		0	0	0	100
55	---		0	0	0	100
260	---		0	0	0	100
340	---		0	0	0	100
340	---		0	0	0	100
75	---		0	0	0	100
2	---		0	0	1	---
40	---		---	0	1	---
80	---		---	0	1	---
80	---		1	0	1	---
80	---		1	0	1	---
355	---		0	1	---	---
310	---		---	1	---	---
330	---		0	0	1	---
70	---		0	0	1	---
25	---		1	0	1	---
45	30		1	1	1	---
10	---		1	1	1	---
40	---		1	0	1	---
90	---		0	0	1	---
25	---		1	0	1	---
60	---		1	0	1	---
40	---		1	0	1	---
350	---		1	0	1	---
0	---		1	0	1	---
35	---		0	0	1	---

348	---	0	0	0	---
260	90	0	0	---	---
20	---	0	0	0	---
3	90	0	0	1	---
330	---	0	0	1	---
50	---	0	0	1	---
345	---	0	0	1	---
320	---	0	0	1	---
45	---	0	0	1	---
345	---	0	0	1	---
35	---	0	0	1	---
224	---	0	0	1	---
2	0	0	0	1	---
330	---	1	---	1	---
330	---	0	0	---	---
45	---	0	0	---	---
358	90	0	0	1	---
90	90	0	0	1	---
3	---	0	0	1	---
2	90	0	1	1	---
22	---	---	---	1	---
65	---	---	---	1	---
110	---	1	---	1	---
315	---	0	0	1	---
350	---	0	0	1	---
15	---	0	0	1	---
110	---	0	0	1	---
86	---	0	0	1	---
350	---	0	0	1	---
110	---	---	---	1	---
355	---	0	0	1	---
110	---	0	0	1	---
341	---	0	0	1	---
50	---	1	1	0	0
85	---	1	1	0	0
345	---	1	1	---	0
21	---	1	1	---	---
63	---	---	1	---	---
341	---	---	---	---	---
29	---	1	1	0	---
299	---	1	1	0	---
11	---	1	0	0	---
92	---	1	0	0	---
13	---	1	1	0	---
60	---	1	1	---	---
341	---	1	1	---	---
57	---	1	1	---	---
307	---	1	1	---	---
358	---	1	1	---	---
19	---	1	1	---	---
292	---	1	1	---	---
16	21	1	0	---	---

94	---		1	0	---	---
89	---		---	---	---	---
354	---		---	---	---	---
17	---		1	1	---	---
341	---		1	1	---	---
305	---		1	1	---	---
87	---		1	1	---	---
359	---		1	1	---	---
99	---		1	1	---	---
15	68		1	1	---	---
109	---		1	1	---	---
352	---		1	1	---	---
115	---		1	1	---	---
49	---		1	1	---	---
84	90		---	---	---	---
24	---		---	---	---	---
13	28		---	---	---	---
	---		---	---	---	---
6	---		1	1	---	---
352	---		1	1	---	---
74	---		1	1	---	---
312	90		1	1	---	---
12	---		1	1	---	---
64	---		1	1	---	---
348	---		0	1	---	---
99	---		0	---	---	---
9	---		1	1	0	5
4	---		1	1	1	5
348	---		1	1	1	5
358	---		1	1	1	---
295	---		1	1	1	---
40	---		1	1	1	---
350	---		1	0	---	---
275	---		1	1	---	---
8	---		1	1	0	---
293	---		1	1	---	---
11	---		1	1	1	---
335	---		1	1	1	---
31	---		1	1	1	---
315	---	38	1	1	1	---
54	---		1	1	1	---
14	---		1	1	1	---
14	---		1	1	---	---
329	---		1	1	---	---
253	---		1	1	1	---
22	---		1	1	---	---
305	---		1	1	---	---
297	---		1	1	---	---
41	---		1	1	1	---
358	---		1	1	1	---
300	---		1	1	---	---
32	---		1	1	1	---

345	---		1	1	---	---
57	---		1	1	---	---
33	---		1	1	---	---
332	---		1	1	---	---
93	---		1	1	---	---
357	---		1	1	---	---
322	---		1	1	---	---
285	---		1	1	---	---
35	---		1	1	---	---
20	---		1	1	---	---
56	---		1	1	---	---
46	---		1	1	---	---
359	---		1	1	---	---
61	---		1	1	---	---
307	---		1	1	---	---
333	---		1	1	---	---
11	---		1	1	1	---
47	---		1	0	0	---
325	---		1	1	0	---
47	---		1	1	0	---
109	---		1	1	0	---
310	---	60	1	1	0	---
66	---		1	1	0	---
26	---		1	1	0	---
60	---		1	1	0	---
10	---		1	1	0	---
134	---		1	1	0	---
325	---		1	1	0	---
24	---		1	1	0	---
336	---		1	1	0	---
332	---		1	1	0	---
97	---		1	1	0	---
325	---	50	1	1	0	---
69	---	50	1	1	0	---
2	---		1	1	0	---
295	---		1	1	0	---
322	---		1	1	0	---
4	---		1	1	0	---
75	---		1	1	0	---
340	---		1	1	0	---
320	---		1	1	0	---
11	---		1	1	---	---
320	---		---	---	---	---
350	---		---	---	---	---
40	---		---	---	---	---
29	---		---	---	---	---
90	---		---	---	---	---
10	---		---	---	---	---
329	---		---	---	---	---
70	---		---	---	---	---
13	---	30	---	---	---	---
349	---		1	1	---	---

30	90		1	1	---	---
355	---		1	1	---	---
23	---		1	1	---	---
358	---		1	---	---	---
340	---		1	---	---	---
355	---		1	---	---	---
358	---		1	---	---	---
85	---		---	---	---	---
52	---		---	---	---	---
357	---		---	---	---	---
80	---		---	---	---	---
6	---		---	---	---	---
322	---		---	1	---	---
305	---		---	1	---	---
20	---		---	1	---	---
80	---		---	---	---	---
337	---		---	---	---	---
80	---		---	---	---	---
336	---		---	---	---	---
14	---		---	---	---	---
20	---		---	---	---	---
292	---		---	---	---	---
348	---		---	---	---	---
339	---		---	---	---	---
329	---		---	---	---	---
314	---		---	---	---	---
80	---		---	---	---	---
30	---		---	---	---	---
92	---		---	---	---	---
60	---		---	---	---	---
336	---		---	---	---	---
8	---		---	---	---	---
100	---		---	---	---	---
65	---		---	---	---	---
48	---		---	---	---	---
331	---		---	---	---	---
58	---		---	---	---	---
346	---		---	---	---	---
331	---		---	---	---	---
24	---		---	---	---	---
71	---		---	---	---	---
260	---		---	---	---	---
2	---		---	---	---	---
321	---		---	---	---	---
45	---		---	---	---	---
0	---		---	---	---	---
60	---		---	---	---	---
319	---		---	---	---	---
79	---	19	---	---	---	---
4	---		---	---	---	---
59	---		---	---	---	---
348	---		---	---	---	---

346	---		---	---	---	---
65	---		---	---	---	---
300	---		---	---	---	---
328	---		---	---	---	---
340	---		---	---	---	---
328	---		---	---	---	---
9	---		---	---	---	---
16	---		---	---	---	---
90	---		---	---	---	---
355	---		---	---	---	---
349	---		---	---	---	---
290	---		---	---	---	---
65	---		---	---	---	---
50	---		---	---	---	---
310	---		---	---	---	---
293	---		---	---	---	---
312	---		---	---	---	---
38	---		---	---	---	---
331	---		---	---	---	---
26	---		---	---	---	---
19	---		---	---	---	---
80	---		---	---	---	---
62	---		---	---	---	---
325	---		1	1	0	---
17	---		1	---	0	---
27	---		1	---	0	---
290	---		1	---	0	---
38	---		1	---	0	---
2	---	52	1	---	0	---
48	---		1	---	0	---
36	---		1	---	0	---
330	---		1	---	0	---
10	---		1	---	0	---
76	---		1	---	0	---
3	---		1	---	0	---
101	---		1	---	0	---
347	---		1	---	0	---
89	---		1	---	0	---
346	---		1	---	0	---
317	---		1	---	0	---
262	---		1	---	0	---
11	---		1	---	0	---
11	---		1	---	0	---
80	---		1	---	0	---
333	---		---	---	---	---
335	---		---	---	---	---
242	---		---	---	---	---
335	---		---	---	---	---
17	---		---	---	---	---
312	---		---	---	---	---
352	---		---	---	---	---
87	---		---	---	---	---

50	---		---	---	---	---
33	---		0	0	0	0
90	90		0	0	0	0
26	---		0	0	0	0
335	---		0	---	0	---
105	---		0	---	0	---
16	---		0	---	0	---
282	---		0	---	---	---
265	---		0	---	---	---
3	---		0	---	---	---
24	---		0	---	---	---
350	---		0	---	---	---
327	---		---	---	---	---
354	---		---	---	---	---
75	---		---	---	---	---
22	---		---	---	---	---
330	---		---	---	---	---
5	---		---	---	---	---
30	---		---	---	---	---
308	---		---	---	---	---
14	---		---	---	---	---
300	---		---	---	---	---
80	---		---	---	---	---
313	---		---	---	---	---
6	---		0	0	1	---
320	---		0	0	1	---
335	---		0	0	1	---
22	---		---	---	---	---
34	---		---	---	---	---
356	---		---	---	---	---
65	---	25	---	---	---	---
328	---		---	---	---	---
39	90		---	---	---	---
17	---		---	---	---	---
300	---		---	---	---	---
280	---		---	---	1	---
5	---		---	---	---	---
40	---		---	---	---	---
65	---		---	---	---	---
28	---		---	---	---	---
320	30	30	---	---	---	---
325	---		---	---	---	---
59	---		---	---	---	---
80	---		---	---	1	---
355	---		---	---	---	---
15	---		---	---	---	---
39	90		0	---	1	---
98	---		0	---	---	---
65	---		---	---	---	---
345	---		---	---	---	---
75	---		---	---	---	---
18	---		---	---	---	---

16	---	---	1	---	---
110	---	---	---	---	---
40	---	---	---	---	---
340	---	---	---	---	---
357	---	---	---	---	---
39	---	---	---	---	---
23	---	---	---	---	---
356	---	---	---	---	---
65	---	---	---	---	---
115	---	---	---	---	---
21	90	---	1	---	---
79	---	---	---	---	---
120	---	---	---	---	---
20	---	---	1	---	---
350	---	---	---	---	---
310	---	---	---	---	---
54	---	---	---	---	---
35	---	---	0	1	---
80	---	---	---	---	---
113	---	---	---	---	---
330	---	---	0	---	---
60	---	---	---	---	---
13	---	---	1	---	---
85	---	---	---	---	---
349	---	---	---	---	---
334	---	---	---	---	---
58	---	---	---	---	---
110	---	---	---	---	---
28	---	---	---	---	---
340	---	---	---	---	---
325	60	---	---	---	---
38	---	---	---	---	---
314	---	---	---	---	---
34	---	---	---	---	---
359	---	---	---	---	---
80	---	---	---	---	---
336	---	---	---	---	---
79	---	---	---	---	---
354	90	---	1	---	---
330	---	---	---	---	---
299	90	---	---	---	---
355	---	---	---	---	---
42	---	---	---	---	---
339	---	---	---	---	---
65	---	---	---	---	---
351	---	---	---	---	---
85	---	---	---	---	---
352	---	---	---	---	---
19	---	---	---	---	---
68	---	---	---	---	---
22	---	---	---	---	---
346	---	---	---	---	---

2	90	---	---	---	---
97	---	---	---	---	---
107	---	---	---	---	---
105	---	---	---	---	---
8	---	---	---	---	---
60	---	---	---	---	---
16	---	---	---	---	---
340	---	---	---	---	---
65	---	---	---	---	---
110	---	---	---	---	---
2	---	---	---	---	---
40	---	---	---	---	---
336	---	---	---	---	---
3	15	---	---	---	---
36	---	---	---	---	---
350	---	---	---	---	---
305	---	---	---	---	---
306	---	---	---	---	---
54	---	---	---	---	---
344	90	---	---	---	---
56	---	---	---	---	---
4	---	---	---	---	---
45	---	---	---	---	---
340	---	---	---	---	---
110	---	---	---	---	---
38	90	---	---	---	---
65	---	---	---	---	---
0	---	---	---	---	---
75	---	---	---	---	---
24	---	---	---	---	---
95	---	---	---	---	---
25	---	---	---	---	---
10	---	---	---	---	---
105	---	---	---	---	---
29	---	---	---	---	---
105	---	---	---	---	---
0	---	---	---	---	---
42	---	---	---	---	---
342	---	---	---	---	---
310	---	---	---	---	---
16	---	---	---	---	---
30	---	---	---	---	---
346	---	---	---	---	---
35	90	---	---	---	---
340	---	---	---	---	---
115	---	---	---	---	---
35	90	---	---	---	---
340	---	---	---	---	---
37	11	---	---	---	---
60	---	---	---	---	---
345	---	---	---	---	---
30	---	---	---	---	---

70	---		---	---	---	---
110	---		---	---	---	---
100	90		---	---	---	---
0	---		---	---	---	---
330	---		---	---	---	---
193	---		1	1	0	80
318	---		---	---	---	---
347	---		1	1	0	10
66	35		1	1	---	50
30	208		1	---	---	---
	---		---	---	---	---
160	---		1	1	---	10-20
190	---	60	1	---	---	---
262	---		1	---	---	---
215	---		1	---	---	---
66	---		1	1	---	50
53	---		---	---	---	---
48	---		---	---	---	---
15	---		---	---	---	---
297	---		1	1	---	10
312	---		---	---	---	---
167	---		---	---	---	---
218	---		---	---	---	25
310	---		---	---	---	---
290	---		---	---	---	---
212	---		---	---	---	---
99	---		1	1	---	10
99	---		---	---	---	---
27	---		---	---	---	---
215	---		1	1	---	10
245	---		---	---	---	---
320	---		1	---	---	10
343	---		---	---	---	---
288	---		---	---	---	---
352	---		---	---	---	---
265	---		---	---	---	---
175	30		1	---	---	---
270	300		---	---	---	---
351	---		1	1	---	---
290	---		---	---	---	---
317	---		---	---	---	---
343	---		---	---	---	---
310	---		---	---	---	---
326	---		1	1	---	---
292	---		---	---	---	---
58	---		---	---	---	---
325	---		1	1	---	---
310	---		1	1	---	---
356	---		---	---	---	---
312	---		---	---	---	---
40	---		---	---	---	---
314	---		---	---	---	---

21	---	1	1	---	---
3	---	---	---	---	---
320	---	---	---	---	---
16	---	1	1	---	---
18	---	---	---	---	---
308	---	---	---	---	---
28	---	---	---	---	---
88	---	---	---	---	---
342	---	1	1	---	10
58	---	---	---	---	---
46	---	1	1	---	30
22	---	---	---	---	---
0	---	1	1	---	5
8	---	---	---	---	---
348	---	---	---	---	---
3	---	---	---	---	---
273	---	---	---	---	---
55	---	---	---	---	---
0	---	1	1	---	0
12	---	---	---	---	---
33	---	---	---	---	---
67	---	---	---	---	---
314	---	1	1	---	15-20
233	---	---	---	---	---
295	---	1	1	---	5
234	---	---	---	---	---
348	---	---	---	---	---
299	---	---	---	---	5
37	---	---	---	---	---
78	---	---	---	---	5
352	---	---	---	---	---
99	---	---	---	---	---

Data Repository Table 2: Rock Surface Temperature measurements for 9 clasts. Rocks 1-7 are located in the San Bernardino Mountains and data was collected in summer. Rock 8 is located in San Lorenzo Site and data was collected in winter. See manuscript text for details on methodology and field locations.

Them. Orient = the orientation of a line projected from the top of the clast to the position of the center of the thermometer.
face orientation = dip direction,angle of the surface on which the thermometer is located
--- = no data collected

Rock #1		Crack types and orientations	o, 336; o, 20					
		Clast length (cm), orientation	38, 93					
		Clast width (cm)	25					
		Ht. Above surface (cm)	24					
		Location	Qyf3; st. 19					
		Color	Buff tan					
		Ground Surface Aspect	240					
		Ground Surface Slope	8					
		Clast Lithology	Meta-sed					
	North	East	South	West	Top	Time	Air Temp (ºF)	
	#1	#2	#3	#4	#5			
Therm. Orient	---	---	---	---	---	---	---	
Face Orient.	---	---	---	---	---	---	---	
	Temp ºC	Temp ºC	Temp ºC	Temp ºC	Temp ºC			
	40.5	58	55	48	53	11:00 AM	---	
	44	58	58	53	56	12	---	
	52	58	60	60	62	14:30		99
	50	54	56	58	59	15:30	---	

Rock #2	Crack types and orientations	o,4
	B-axis length (cm), orientation	33,260
	A axis length (cm)	26
	Ht. Above surface (cm)	17
	Location	Qyf2
	Color	white/off white
	Ground Surface Aspect	-
	Ground Surface Slope	flat

			Lithology		Meta-sed									
	North		East		South		West		Top		Time		Air Temp (ºF)	
	#1		#2		#3		#4		#5					
Therm. Orient		13		100		180		256	none					
Face Orient.	---		---		---		---		---					
	Temp ºC		Temp ºC		Temp ºC		Temp ºC		Temp ºC					
		50		55		48		42	---		10:00			84
		54		60		53		52	---		11:00	---		
		60		66		61		62	---		12:00			99
		62		68		66		65	---		13:00	---		

Rock #3	Crack types and orientations	o,321; o,12; j,270
	B-axis length (cm), orientation	21;75
	A axis length (cm)	19
	Ht. Above surface (cm)	12
	Location	Station 24
	Color	lite grey
	Ground Surface Aspect	-
	Ground Surface Slope	flat
	Lithology	Limestone

	North		East		South		West		Top		Time		Air Temp (ºF)	
	#1		#2		#3		#4		#5					
Therm. Orient		345		90		180		270		60				
Face Orient.	30/34		120/90		215/90		275/38		30/34					
	Temp ºC		Temp ºC		Temp ºC		Temp ºC		Temp ºC					
Temp ºC		34		42		26		26		41	9:00			71
		46		56		46		44		54	11:00	---		
		52		58		50		51		57	12:00	---		
		56		55		56		58		61	13:00	---		
		56		54		58		60		60	14:00			90
		55		52		58		58		56	15:00	---		
		53		48		57		59		52	16:00	---		
		46		38		40		46		38	18:00	---		

	39		35	34	40	34	19:00	---		

Rock #4	Crack types and orientations	o, 42;o,310;o,350
	B-axis length (cm), orientation	15
	A axis length (cm)	14
	Ht. Above surface (cm)	8
	Location	Blackhawk
	Color	Dark Grey
	Ground Surface Aspect	-
	Ground Surface Slope	flat
	Lithology	Limestone

	North	East	South	West	Top	Time	Air Temp (ºF)	
	#1	#2	#3	#4	#5			
Therm. Orient	0	90	170	275	45			
Face Orient.	0/90	70/55	145/80	275/28	45/32			
	Temp ºC	Temp ºC	Temp ºC	Temp ºC	Temp ºC			
	44	58	52	36	50	9:30		80
	46	60	60	44	56	10:00	---	
	50	64	68	54	62	11:00		86
	53	64	70	62	63	12:00		90
	56	64	72	68	65	13:00		90
	57	61	71	70	63	14:00		92
	58	52	64	72	60	15:30		94
	57	48	58	70	55	16:30		93
	53	44	51	62	47	17:30		89

Rock #5	Crack types and orientations	o,350; j,285
	B-axis length (cm), orientation	20,80
	A axis length (cm)	15
	Ht. Above surface (cm)	6
	Location	Qvof2
	Color	rose pink/white
	Ground Surface Aspect	-
	Ground Surface Slope	flat
	Lithology	qtzite

	North	East	South	West	Top	Time	Air Temp (ºF)	
	#1	#2	#3	#4	#5			
Therm. Orient	50	85	210	330	-			
Face Orient.	0/53	130/58	240/90	0/53	235/12			
	Temp ºC	Temp ºC	Temp ºC	Temp ºC	Temp ºC			
	50	57	44	49	50	10:00		80
	54	62	48	52	54	11:00	---	
	60	64	58	54	56	12:00	---	
	64	64	64	58	62	13:00	---	
	66	64	64	62	62	14:00		99
	66	56	64	60	60	15:00	---	
	59	52	65	58	62	16:00		96

Rock #6

Crack types and orientations	b/j, 320
B-axis length (cm), orientation	~40
A axis length (cm)	~20
Ht. Above surface (cm)	~20
Location	old debris flow
Color	dark brown
Ground Surface Aspect	-
Ground Surface Slope	flat
Lithology	granit

Note: The 'east' therm. Was falling off during the day.

	North	East	South	West	Top	Time	Air Temp (ºF)	
	#1	#2	#3	#4	#5			
Therm. Orient	10	130	185	310	-			
Face Orient.	50/90	125/-65 (overhung);post 1pm 7(	220/90	310/37	70/25			
	Temp ºC	Temp ºC	Temp ºC	Temp ºC	Temp ºC	Temp ºC		
	48	36	25	26	40	9:00		63
	50	38	28	30	46	10:00		64
	50	52	36	34	49	11:00		67
	48	54	43	39	52	12:00		67
	40	46	46	42	51	13:00		69
	34	32	44	46	45	14:00		68
	34	41	44	40	42	15:00		63
	30	33	40	41	37	16:00	---	

Rock #7			Crack types and orientations	o,5;o,349;j,50					
			B-axis length (cm), orientation	~2 m					
			A axis length (cm)	~1.5m					
			Ht. Above surface (cm)	~1.5m					
			Location	Qof3					
			Color	grey/brown					
			Ground Surface Aspect	-					
			Ground Surface Slope	flat					
			Lithology	granit					
	North		East	South	West	Top	Time	Air Temp (ºF)	
	#1		#2	#3	#4	#5			
Therm. Orient		70	106	234	300	-			
Face Orient.	4/55		142/59	226/90	305/61	128/9			
	Temp ºC		Temp ºC	Temp ºC	Temp ºC	Temp ºC			
		51	62	40	36	54	10:30	---	
		49	56	54	46	56	13:30	---	
		54	51	60	55	59	15:30	---	
		52	43	52	58	52	18:00	---	

Rock #8			Crack types and orientations	o,315;o,20					
San Lorenzo Canyon			B-axis length (cm), orientation	46					
New Mexico			A axis length (cm)	38					
1/14/2002			Ht. Above surface (cm)	28 cm					
			Location	late Holocene bar/terrace					
			Color	dove grey					
			Ground Surface Aspect	-					
			Ground Surface Slope	flat					
			Lithology	Rhyolite					
	North		East	South	West	Top	Time	Air Temp (ºC)	
	#1		#2	#3	#4	#5			
Therm. Orient	same as face orientation							~10	
Face Orient.	230/64		30/50	300/45	30/90	90/10 E			
	Temp ºC		Temp ºC	Temp ºC	Temp ºC	Temp ºC			
		6	20	10	-4	12	9:20	---	

6	25	18	-4	19	10:00:00 A	---
6	33	28	1	27	11:00	---
7	38	34	5	32	12:00	wind picks up
6	32	32	11	25	13:00	10 km/hr southeasterly
8	28	29	16	27	14:00	---
10	20	24	18	19	15:00	---
10	15	20	18	16	16:00	---

Data Repository Table 3: Rock Surface Temperature Measurements on a Subrounded Granite Gneiss Boulder, January 9, 2004. These data are not reported in the manuscript.

Time (am)	SE face temp (ºC)	Top face temp (ºC)	NW face temp (ºC)
8:35	-6	-7	-4
8:38	-7	-8	-4
8:40	-7	-8	-4
8:45	-7	-8	-4
8:50	-7	-3	-4
8:55	-6.5	0	-4
9:00	6	2	-4
9:05	12	2	-3.5
9:10	15	3	-3
9:15	16	3.5	-2.5
9:20	16.5	4	-2
9:25	17	4	-2
9:30	18	4	-2
9:35	20	6	-1.5
9:40	21	6	-1.5
9:45	22	6	-1.5
9:50	22	7.5	-1.5
9:55	23	8	-1
10:00	23	8	-1
10:05	23	8	-1
10:10	22.5	9	-1
10:15	20	8	-1
10:20	20	8	-0.5
10:22	17	6	-0.5
10:23	14	6	-0.5
10:24	13	6	-0.5
10:25	10	6	-0.5
10:26	9.5	6	-0.5
10:27	9	6	-0.5
10:28	8	5.5	0
10:29	8	5.5	0
10:30	7.5	5.5	0
10:32	6	6	0
10:35	6	6	0
10:37	6	7	0
10:40	5	4	0
10:45	5	4	0
10:47	6	4.5	0
10:48	7	5.5	0
10:49	7.5	6	0
10:50	8	6	0
10:51	8	7	0
10:52	8	7.5	0
10:53	8	7.5	0
10:54	9	7	0.5
10:55	11	6	0.5
10:57	15	4	0.5

11:00	17.5	5	0.5
11:03	20	8	1
11:05	21	9	1
11:07	19.5	8.5	1

Notes

1. Rock dimensions: Width - 105 cm; Length - 170 cm; Height - 45 cm
2. Windiness: very light to none
3. Initially higher NW (Shaded side) temperatures attributed to radiant heat produced by large, sunlit buildings 25 m NW of boulder location; this side not illuminated during entire period of temperature meassurement
4. First sunlight on top of boulder surface at 8:47 a.m.
5. First sunlight on SE side of boulder at 8:55 a.m.
6. Temporarily shaded SE side of boulder at 10:21 a.m.; re-exposed to sunlight at 10:46 a.m.
7. Wind speed moderately increased at 10:32 a.m., but gradually decreased to very light winds by 11:00 a.m.
8. Boulder top in shade of branch at 10:53 a.m., out of shade at 11:00 a.m.
9. SE side of boulder slightly shaded by branch at until 10:54 a.m.