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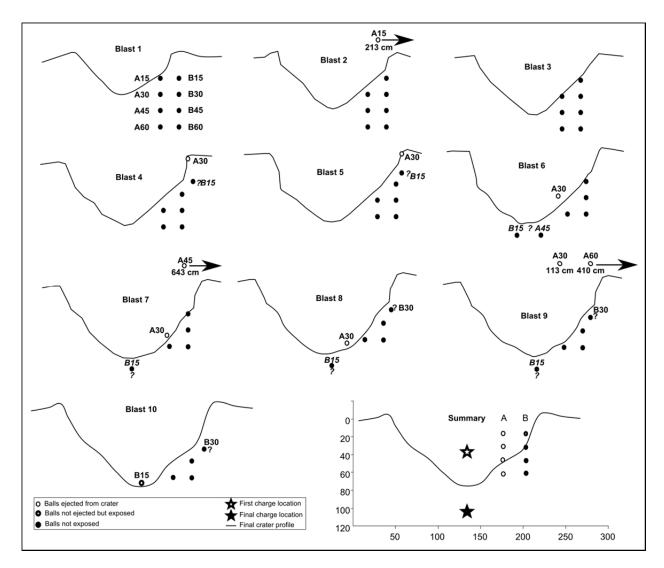
Recycling in debris-filled volcanic vents

Graettinger et al.

Supplemental Table DR1: 2015Pad1 crater geometries and buried subsurface tracer data.

Blast	Energy (J)	Scaled depth (m/J ^{1/3})	depth (m)	diameter (m)	Depth of crater (m) above tracer position		Location of exposed tracer (position depth cm)
		, ,			A (0.5 m)	B (0.75 m)	Tracer: Position*
1	$7.50x10^5$	3.85E-03	0.37	1.26	0.12	0.00	-
2	$7.50x10^5$	3.85E-03	0.53	1.57	0.18	0.05	A15: ejecta 2.13 m
3	$7.50x10^5$	3.85E-03	0.60	1.63	0.25	0.05	-
4	$7.50x10^5$	3.85E-03	0.62	1.69	0.32	0.13	A30: crater rim 0.89 m
5	$7.50x10^5$	3.85E-03	0.66	1.76	0.51	0.34	A30: crater rim 0.89 m
6	$7.50x10^5$	3.85E-03	0.67	1.84	0.34	0.15	A30: in crater 0.58 m
7	7.50x10 ⁵	3.85E-03	0.70	1.89	0.43	0.22	A30: in crater 0.45 m A45: ejecta 6.43 m
8	$7.50x10^5$	3.85E-03	0.74	1.89	0.45	0.25	A30: in crater 0.47 m
9	7.50x10 ⁵	3.85E-03	0.76	1.90	0.47	0.28	A30: ejecta 1.13 m A60: ejecta 4.10 m
10	7.50x10 ⁵	3.85E-03	0.81	2.02	0.46	0.24	B15: in crater 0 m

^{*}Tracer names include horizontal position A or B which indicates lateral distance from crater center and depth below original pad surface in cm e.g. A30. Final position distance is measured radially from the charge location.



Supplemental Figure DR1 2015 ten blast pad crater profiles with location of buried tracers noted. Solid circles represent tracers not exposed, though in some cases their starting position was inside the excavated crater and no tracer was observed. Question marks occur next to tracers that were no longer in position, but not observed directly. Hollow circles with thick lines represent exposed tracers that did not leave the crater. Hollow circles were ejected from the crater. In the case of A30 the tracer was initially ejected and incorporated into the tephra ring and later returned to the crater. The final summary graph highlights that all of the tracers in line A were ejected from the crater by blast 10. Only B15 was exposed by blast 10. See Supplemental Table 1 for detailed history of individual tracers