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Title of article Correlation of upper Cenozoic tephra layers between sediments of the western United States and eastern Pacific Ocean and comparison with biostratigraphic and magnetostratigraphic age data

Author(s) A. M. Sarna-Wojcicki, S. D. Morrison, C. E. Meyer, and J. W. Hillhouse

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Tables A, B., and C.

Table A. Names of analyzed ash beds, name of formation or type of enclosing sediments, locations, and methods by which glass of each sample has been analyzed.

Sample No.	Name of tephra unit or of enclosing sediments	County, state or DSDP site
	Loleta ash bed and Bend pumice unit	
1	Bend pumice unit (airfall pumice lapilli)	Deschutes, Ore.
2	Ash bed in Hookton Formation (Loleta ash bed)	Humboldt, Ca.
3	Do	do.
4	Ash bed at 130 m depth in sediments of Clear Lake	Lake, Ca.
5	Ash bed at 7 m depth in marine nannofossil ooze	DSDP 36
6	Do	do.
	Lava Creek B ash bed	
7	Ash bed in Harpole Mesa Formation	Grand, Utah
8	Ash from 5-15 cm above base of bed in lake beds	Inyo, Ca.
9	Ash from 0-7 cm above base of bed in lake beds	do.
10	Ash from 33-43 cm above base of bed in lake beds	do.
11	Ash from 0-18 cm above base of bed, San Pedro Formation	Ventura
12	Ash from 0-3.5 cm above base of bed, San Pedro Formation	do.
13	ASh from 5-9 cm above base of bed, San Pedro Formation	do.
	Bishop ash bed	
14	Air-fall ash bed at base of Bishop Tuff	Inyo, Ca.
15	Do.	do.
16	Ash bed in Harpole Mesa Formation	Grand, Utah
17	Ash bed in lake beds	Inyo,. Ca.
18	Ash bed in lake beds	do.
19	Ash bed in Santa Barbara Formation (Sexton Canyon)	Ventura, Ca.
20	Ash bed in Santa Barbara Formation (Ventura River)	do.
21	Ash bed at 8 m depth in marine silty clay	DSDP 470
	Rio Dell ash bed	
22	Ash bed in Carlotta Formation	Humboldt, Ca.
23	Ash bed in upper member Rio Dell Formation	do.
24	Ash bed at 58 m in marine silty clay	DSDP 173
25	Ash bed at 24 m in marine mud	DSDP 34
	Huckleberry Ridge ash bed	
26	Ash in alluvium (Borchers locality)	Meade, Kan.
27	Ash bed in lake beds	Inyo, Ca.
28	Do.	do.
29	Do.	do.
30	Ash bed in Pico Formation	Ventura, Ca.
31	Do.	do.
32	Ash bed at 36 m in marine foram-nonnofossil ooze	DSOP 36

Table A (cont.)

Sample No.	Township and Range, or Latitude		Section, 1/4, 1/16 or Longitude			Type of Analysis 1/ EMA	XES	INAA
	Loleta ash bed and Bend pumice unit							
1	17S	12E	6	NW	SE	X		
2	3N	1W	19	SE	NE	X	2X	
3	do.	do.	16	SW	SE	X	2X	X
4	29° 04.94'N		122° 51.08'W			X		
5	40° 59.08'N		130° 06.58'W			X		
6	do.		do.			X	2X	
	Lava Creek B ash bed							
7	24S	24E	26	SE	NW	3X	3X	2X
8	21N	6E	31	NW	NW	X	X	X
9	do.	do.	do.	do.	do.			X
10	do.	do.	do.	do.	do.	X	X	
11	34° 17.54'N		119° 13.44'W			X	X	X
12	do.	do.	do.			X	X	
13	do.	do.	do.			X		
	Bishop ash bed							
14	6S	33E	4	NW	NW	2X	X	X
15	do.	32E	20	SW	NW			X
16	24S	24E	26	NE	SE	X	X	X
17	22N	7E	29	SW	SE	X	X	
18	do.	do.	32	NE	SW			X
19	34° 18.33'N		119° 13.83'W			X	X	X
20	34° 17.56'N		119° 16.58'W			X	X	X
21	28° 54.46'N		117° 31.11'W			X		
	Rio Dell ash bed							
22	1N	1E	32	NW	NW	3X	2X	X
23	2N	3W	13	SW	NE	2X	2X	X
24	39° 57.71'N		125° 27.12'N			X		
25	39° 28.21'N		127° 16.54'W			X	X	
	Huckleberry Ridge ash bed							
26	33S,	28W	21	NE	NW	3X	2X	2X
27	2IN	7E	23	SE	NE	X		X
28	do.	do.	23	SE	SE		X	X
29	do.	do.	24	SW	SW	X	X	
30	3N	20W	16	SW	NW	X	X	
31	3N	21W	28	NE	SW			2X
32	40° 59.08'N		130° 06.58'W			2X	2X	

1/ EMA - electron microprobe analysis; XES - energy-dispersive x-ray fluorescence analysis; INAA - instrumental neutron-activation analysis. X - sample analyzed once; 2X, 3X - sample analyzed twice, three times, respectively.

Table B. Matrix of similarity coefficients (SIMANAL), upper right half, and standard deviations of averages of ratios (RATIONAL), lower left half, for electron-microprobe (EMA) analyses of glass of ash layers. Dashes in the identity diagonal (upper left to lower right of matrix) represent values that are obtained for a perfectly matched sample pair: 100 for SIMANAL, and zero for RATIONAL.

		LOLETA ASH BED							LAVA CREEK B ASH BED						
	SAMPLE	1	2	3	4A	4B	5	6	7A	7B	8	10	11	12	13
LOLETA ASH BED	1	-	98	98	98	99	98	97	79	79	80	79	79	79	80
	2	1	-	99	99	98	98	98	78	78	80	78	79	78	79
	3	3	1	-	98	98	98	99	78	78	79	78	78	78	79
	4A	3	2	2	-	98	98	98	78	78	79	78	78	78	79
	4B	2	2	3	3	-	97	97	79	79	81	79	80	79	80
	5	3	2	2	3	4	-	98	78	77	79	77	78	77	78
	6	4	2	1	3	4	2	-	77	77	79	77	78	77	78
LAVA CREEK B ASH BED	7A	28	29	31	30	29	31	32	-	98	97	97	96	98	96
	7B	28	29	31	30	29	31	32	2	-	97	97	96	99	95
	8	28	29	30	29	28	30	31	2	3	-	98	97	97	98
	10	30	31	33	31	31	33	34	3	3	2	-	99	97	98
	11	31	32	33	32	31	33	34	5	5	3	2	-	96	98
	12	29	30	31	31	30	31	32	3	2	3	4	5	-	95
	13	29	30	32	30	30	32	33	4	5	3	3	3	3	-
BISHOP ASH BED	14A	72	72	72	74	70	75	72	44	47	47	47	51	45	49
	14B	72	72	72	74	70	74	71	46	48	49	49	53	46	51
	16	66	66	66	68	64	68	65	41	43	44	44	48	41	46
	17	71	71	71	73	69	73	70	44	45	47	46	50	43	48
	19	71	71	71	73	69	73	70	44	46	47	46	50	43	48
	20	65	65	65	67	63	67	65	40	42	43	43	47	40	44
	21	59	59	59	61	58	61	59	35	37	37	38	41	35	39
RIO DELL ASH BED	22A	26	25	24	24	25	26	24	57	57	60	62	62	58	62
	22B	29	27	26	26	28	28	27	60	60	63	65	65	61	65
	22C	26	25	24	24	25	26	24	58	58	60	63	63	59	62
	23A	30	29	28	28	29	30	28	63	63	66	68	68	64	67
	23B	28	26	25	25	27	27	25	60	60	62	65	64	61	64
	24	27	26	25	25	26	27	25	59	59	62	64	64	60	64
	25	28	26	25	26	27	27	25	61	61	64	66	66	62	66
HUCKLE-BERRY RIDGE ASH BED	26A	29	31	32	30	30	33	34	6	7	6	6	4	8	3
	26B	28	29	30	29	28	31	32	5	5	4	5	4	7	3
	27	27	29	30	28	28	30	31	9	10	9	9	8	11	7
	29	28	29	30	28	28	31	32	7	8	6	7	6	9	4
	30	24	25	27	25	25	27	28	6	6	6	7	7	7	6
	32A	26	27	28	27	26	28	29	5	6	5	6	5	7	4
	32B	29	31	32	30	30	33	34	12	13	12	12	11	14	9

Table B (cont.)

		BISHOP ASH BED							RIO DELL ASH BED						
	SAMPLE	14A	14B	16	17	19	20	21	22A	22B	22C	23A	23B	24	25
LOLETA ASH BED	1	70	72	73	71	71	72	73	86	84	86	84	86	86	85
	2	69	71	73	71	70	71	72	86	85	87	84	87	87	86
	3	68	71	72	70	70	71	72	87	85	87	85	87	87	86
	4A	68	71	72	70	70	71	72	87	85	87	85	87	87	86
	4B	70	72	73	72	71	72	73	86	85	87	83	86	86	86
	5	68	71	72	70	69	70	71	85	84	85	84	86	86	86
	6	68	70	71	70	69	70	71	86	85	86	84	87	86	87
LAVA CREEK B ASH BED	7A	86	86	85	85	86	88	89	71	70	72	67	69	69	69
	7B	86	86	85	85	87	89	89	71	70	72	67	69	69	69
	8	86	85	84	84	86	86	88	72	71	73	68	70	70	70
	10	87	85	84	84	85	86	88	71	70	72	67	69	69	69
	11	87	84	83	83	84	86	87	72	70	72	68	70	70	70
	12	87	87	86	86	87	89	90	71	70	72	67	69	69	69
	13	87	87	86	86	87	89	90	71	70	72	67	69	69	69
BISHOP ASH BED	14A	-	96	94	95	96	95	94	62	61	63	59	61	61	60
	14B	8	-	98	97	97	97	96	64	63	65	61	63	63	62
	16	10	4	-	97	96	96	95	65	64	66	62	64	64	63
	17	8	4	5	-	98	96	95	64	63	65	61	62	63	62
	19	6	4	6	2	-	96	95	63	62	64	61	62	62	62
	20	7	4	5	6	5	-	98	64	63	65	61	62	63	62
	21	8	6	5	7	7	3	-	65	63	65	62	63	63	63
RIO DELL ASH BED	22A	67	59	54	59	62	60	58	-	97	99	94	97	97	97
	22B	70	62	57	61	65	62	61	4	-	97	97	97	97	97
	22C	68	60	55	59	63	60	59	2	5	-	93	96	96	96
	23A	73	64	59	64	67	65	63	6	4	7	-	96	97	95
	23B	69	61	56	61	64	62	60	4	4	3	5	-	99	98
	24	69	61	56	61	64	62	60	4	4	3	4	2	-	97
	25	71	62	57	62	66	63	61	5	5	5	7	3	5	-
HUCKLE-BERRY RIDGE ASH BED	26A	24	26	26	26	25	24	22	58	64	58	69	63	62	63
	26B	24	25	24	25	25	23	22	59	65	58	70	64	63	63
	27	26	27	27	27	27	25	24	52	57	51	61	56	55	56
	29	24	26	25	26	26	24	22	54	60	54	64	59	58	59
	30	25	25	24	25	25	23	21	55	62	55	66	60	59	59
	32A	24	25	24	25	25	23	21	56	62	55	66	61	60	60
	32B	27	29	28	29	28	26	25	47	52	47	55	51	50	52

Table B (cont.)

		HUCKLEBERRY RIDGE ASH BED						
	SAMPLE	26A	26B	27	29	30	32A	32B
	1	81	81	84	82	83	82	84
LOLETA	2	80	80	83	81	82	82	84
ASH	3	79	80	83	81	82	81	83
BED	4A	79	80	83	81	82	81	83
	4B	81	81	84	82	83	83	85
	5	79	79	82	80	81	81	83
	6	79	79	82	80	81	81	83
	7A	95	96	92	94	95	96	91
LAVA	7B	94	96	92	93	95	95	90
CREEK B	8	96	97	94	95	95	97	92
ASH	10	96	96	94	96	94	96	92
BED	11	97	97	95	96	94	96	93
	12	94	95	92	93	95	95	90
	13	94	95	92	93	95	95	90
	14A	86	85	84	84	83	84	83
	14B	82	83	81	82	84	84	79
BISHOP	16	81	82	80	81	84	83	78
ASH	17	81	82	80	81	83	83	78
BED	19	83	84	81	82	84	84	80
	20	84	85	82	84	87	85	81
	21	85	86	83	84	87	86	82
	22A	72	73	75	73	74	74	75
RIO	22B	71	71	74	72	73	73	73
DELL	22C	73	73	75	74	75	75	76
ASH	23A	68	69	71	69	70	70	71
BED	23B	70	71	73	71	72	72	73
	24	70	71	73	72	72	72	72
	25	70	71	73	71	72	72	73
	26A	-	98	96	98	97	97	95
HUCKLE-	26B	2	-	95	97	97	98	94
BERRY	27	4	5	-	98	95	96	97
RIDGE	29	2	3	3	-	97	98	96
ASH	30	5	4	6	5	-	99	93
BED	32A	3	2	5	3	2	-	94
	32B	7	8	4	6	9	8	-

Table C. Matrix of similarity coefficients (SIMANAL), upper right half, and standard deviations of averages of ratios (RATIONAL), lower left half, for instrumental neutron activation analysis (INAA) of glass of the Lava Creek B and Huckleberry Ridge ash beds. Other symbols as for figure 3.

		LAVA CREEK B ASH BED						HUCKLEBERRY RIDGE ASH BED					
	SAMPLE	7A	7B	7C	8	9	11	26A	26B	27	28	31A	31B
	7A	-	96	98	96	96	97	89	89	83	83	84	84
LAVA	7B	8	-	96	96	95	95	88	88	83	83	84	83
CREEK	7C	3	6	-	98	97	97	88	88	83	82	84	82
B	8	4	6	4	-	96	98	89	89	84	83	84	83
ASH	9	5	8	4	7	-	97	88	88	82	81	83	83
BED	11	3	5	3	2	5	-	90	89	84	83	84	84
	26A	15	16	16	14	17	14	-	96	93	92	94	93
HUCKLE-	26B	14	16	15	14	17	14	5	-	91	91	93	91
BERRY	27	22	22	22	21	24	21	9	11	-	96	98	97
RIDGE	28	24	25	25	24	27	24	11	13	4	-	96	94
ASH	31A	20	21	21	20	23	20	7	9	3	4	-	97
BED	31B	20	21	21	20	23	20	8	10	3	5	3	-