EXPLANATION
LAB EXERCISE 10-3 COAST LAB PART 2
FEFOR DO TABLE S, PERRACE AGE DAMA FOR ONEROW COAPT.
COMMNA = TOMPACE AGE IN THOUSANDS OF YEARL AGO, WHEN IT WAS ENDOGO BY WAVE BASE
TOURACE UPLIFT PRESENT TOURAGE QUEVATION COLUMN NEGATIVE ELEVATION LEDON PROBLEM COLUMN D PLATFORM BELON PALED SCH LEVEL PLATFORM BELON PALED SCH LEVEL
TO DETERMINE UPLIFT PATE TO ADO THE ABSOLUTE VALVES OF COZUMN B + COLUMN C + COLUMN D = DOTAL UPLIFT E
3 DIVIDE DOTAL SPLIFT BY AGE DU THOUSANDS
EXAMPLE FOR POW I OF TABLE WHISTEY COUNTY PAINTE AVE PRESENT ENGINE PALEOSOA LEVEL PON TENNACE COL. E TEINZ TECTONIC UPLIF = 17m + 14m + 1-19m1 = 50 m COL. E UPLIF RATE = (50m) 1000 min 80,000 yrs = 0.63 min = 70.63
$=(0.63 \text{mm}) \frac{1000 \text{gr}}{\text{Kg}} = \frac{630 \text{m/m}}{\text{Kg}} (\frac{1 \text{m}}{1000 \text{m/m}}) = 0.63 \text{m}$

Table 5. Worksheet Calculation of Late Quaternary Uplift Rates in the PNW, as Derived from Marine Terrace Data (data derived from Muhs et al., 1990).

ANSWER KEY

Terrace Name	Location	Terrace Age (ka)	Present Elevation (m)	Original Depth of Wave-Cut Platform (meters)	Paleo-Sea Level (meters)	Total Tectonic Uplift (meters)	Average Uplift Rate (m/kyr)	Average Uplift Rate (mm/yr)
		а	b	С	d	е	f	g
Whiskey Run	Coquille Point, OR	80	17	14	-19	50	0.63	0.63
Whiskey Run	Coquille Point, OR	80	17	48	-19	84	1.05	1.05
Whiskey Run	Coquille Point, OR	80	17	14	-5	36	0.45	0.45
Whiskey Run	Coquille Point, OR	80	17	48	-5	70	0.88	0.88
Cape Blanco	Cape Blanco, OR	80	53	10	-19	82	1.03	1.03
Cape Blanco	Cape Blanco, OR	80	53	28	-19	100	1.25	1.25
Cape Blanco	Cape Blanco, OR	80	53	10	-5	68	0.85	0.85
Cape Blanco	Cape Blanco, OR	80	53	28	- 5	86	1.08	1.08
Pioneer	Cape Blanco, OR	105	57	26	-9	92	0.88	0.88
Pioneer	Cape Blanco, OR	105	57	90	-9	156	1.49	1.49
Pioneer	Cape Blanco, OR	105	57	26	-2	85	0.81	0.81
Pioneer	Cape Blanco, OR	105	57	90	-2	149	1.42	1.42

Explanation of Data:

Column a: "ka" = kiloans = 1000's of years ago (how long ago the wave-cut platform was formed)

Column b: "present elevation" = present day elevation of coastal terrace above sea level

Column c: "original depth" = original depth of wave-cut platform below sea level, at time of wave erosion

Column d: "paleo-sea level" = level of sea, relative to present, at time wave-cut platform was eroded

Column e: total tectonic uplift of wave-cut platform from time in column a to present.

Column f: tectonic uplift rate of terrace in meters per 1000 yrs

Column g: tectonic uplift rate of terrace in millimeters per yr

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