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PROGRAMME SEQUENCE LIST

Title : Earth Structure.

Contributors : M.J. Pentz (introduction) Russell Stannard Ian Gass

S100/22 CU Tape No. 6LT/10007 Project No. 00520/1122 Date Recorded 19.5.1970.

Form VTR 551.22

Producer: Nat Taylor

1ST TX 28.6.71.

Seq.	Time	Footage	Sequence List	Sound Cue
	51"		M.J. Pentz introduces the unit.	
	• , ₃₄ "		<u>R.Stannard</u> introduces his discussion on P and S waves in earthquakes with a brief definition of the two kinds of waves (compressional and transverse waves)	
	2132"		Animated diagram showing compressional (P) waves	Stannard, R
	3'26"		Animated diagram showing transverse (S) waves.	
1/	4117"		Aerial shot of portion of the San Andres fault. Standard points out some details.	551.870978962
	10'43"		Stannard uses a model of the <u>San Andres</u> fault connected to 3 large springs to simulate <u>Swaves and Pwaves</u> . A mixture of <u>S</u> and P waves is simulated with the model and shown on a diagram. Stannard shows that the intensity of each depends on the angle from the fault line at which the reading is taken.	fault line direction
	0104"		Pentz introduces Ian Gass	well, the question
2/	14:04"		Gass discusses the effect of P and S waves on the earth. He has with him 3 <u>seismometers</u> which are connected to an oscilloscope. As Gass taps on the table from various directions, the shock tracings are seen on the oscilloscope <u>scr</u> een.	551.22028 Gass, I
	<u>15'13"</u>		Gass shows traces from an actual earthquake. He explains the difficulty of interpreting such <u>complex tracings</u> .	
	16115"		Gass shows tracings taken of a simpler earth- quake on which a definite pattern can be seen. <u>P wa</u> ves precede S waves.	
	17'01"		Animated diagram shows tracings taken from stationa (3) at various angles to the fault.	
_	19148"		Gass with a half earth globe. On it he shows the maximum angle of S wave travel from an area of earthquake- (103°) From a number of these S wave readings the <u>earths core</u> can be defined. (The area through which S waves cannot travel.)	551.11
	A TABLE			

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Continuation

				Continuation
Seq.	Time	Footage	Sequence List	Sound Cue
	21102"		Gass inserts an <u>inner core into</u> the globe, simulating the earths inner core. He explains how through a series of P Wave readings the size of the inner core can be determined.	
	23'30		The <u>low velocity layer</u> of the <u>earths</u> crust is shown in a diagram and its nature explained by Gass.	551.14
			Movement of the outer crust over the mantle with a low velocity zone sandwiched between is shown in an animated diagram.	
	<u>4'12"</u>		Gass explains the origin of volcanoes in the low velocity zone.	
	24142"		Aerial shots of <u>volcano</u> with credits over.	551.21