

Title : Earth Structure.

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

CU S100/22

Tape No. 6LT/10007

Project No. 00520/1122

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Form VTR

551.22

Producer: Nat Taylor

1ST TX 28.6.71.

Seq.	Time	Footage	Sequence List	Sound Cue
1/	51"		M.J. Pentz introduces the unit.	
	1'34"		R. Stannard introduces his discussion on P and S waves in earthquakes with a brief definition of the two kinds of waves (compressional and transverse waves)	
	2'32"		Animated diagram showing compressional (P) waves	Stannard, R
	3'26"		Animated diagram showing transverse (S) waves.	
	4'17"		Aerial shot of portion of the <u>San Andres</u> 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 S waves and P waves. A mixture of S 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
2/	1'04"		Pentz introduces <u>Ian Gass</u>	well, the question.....
	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 screen.	551.22028
	15'13"		Gass shows traces from an actual earthquake. He explains the difficulty of interpreting such complex tracings.	Gass, I
	16'15"		Gass shows tracings taken of a simpler earthquake on which a definite pattern can be seen. P waves precede S waves.	
	17'01"		Animated diagram shows tracings taken from station (3) at various angles to the fault.	
	19'48"		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>earth's core</u> can be defined. (The area through which S waves cannot travel.)	551.11

