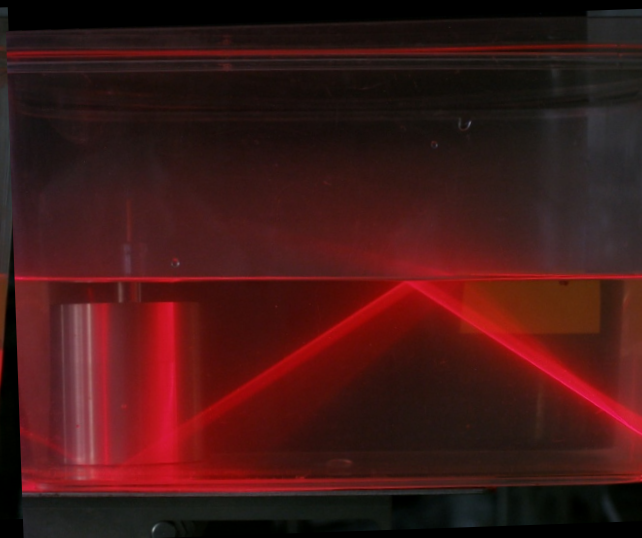
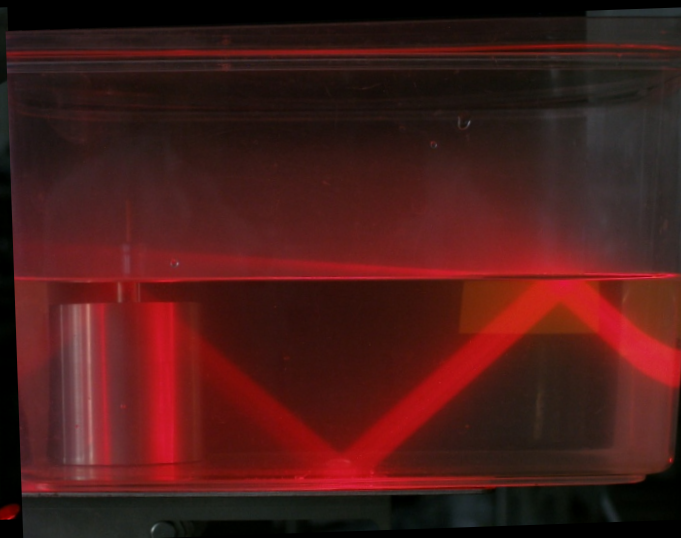
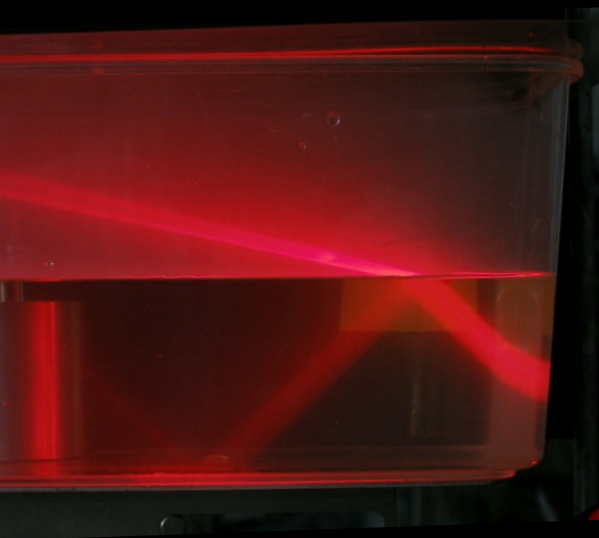
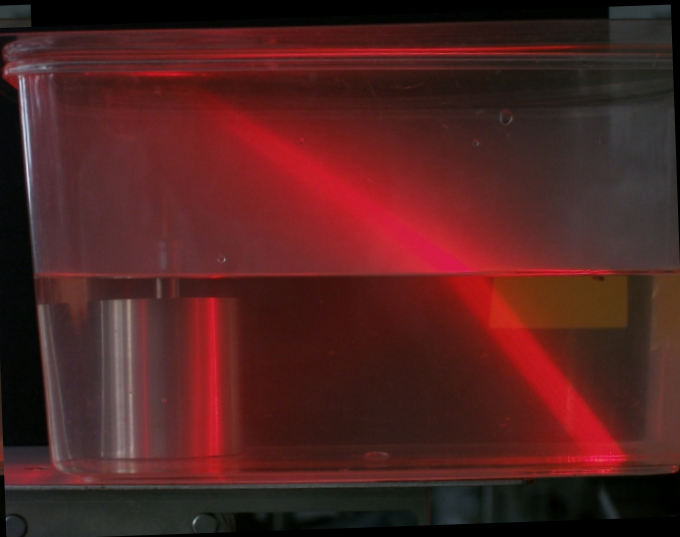
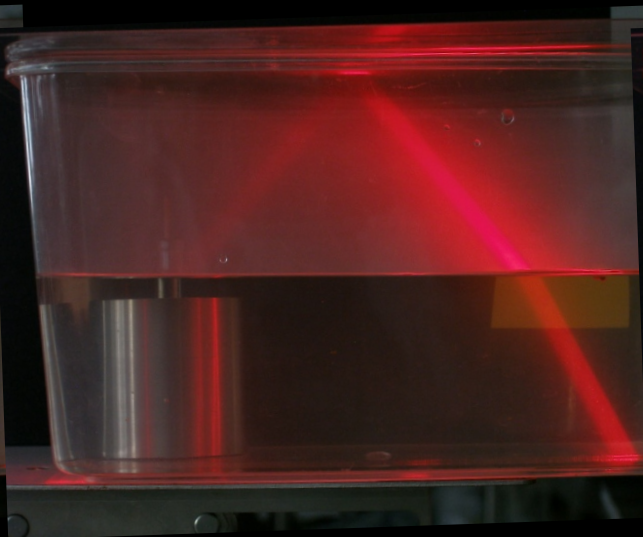
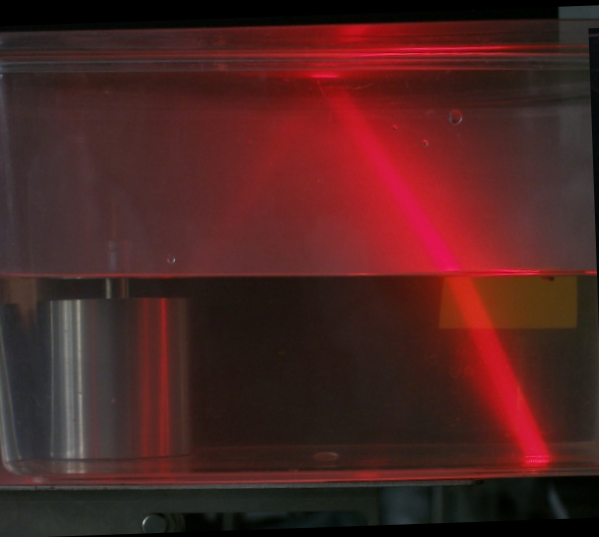


地球内部物理学

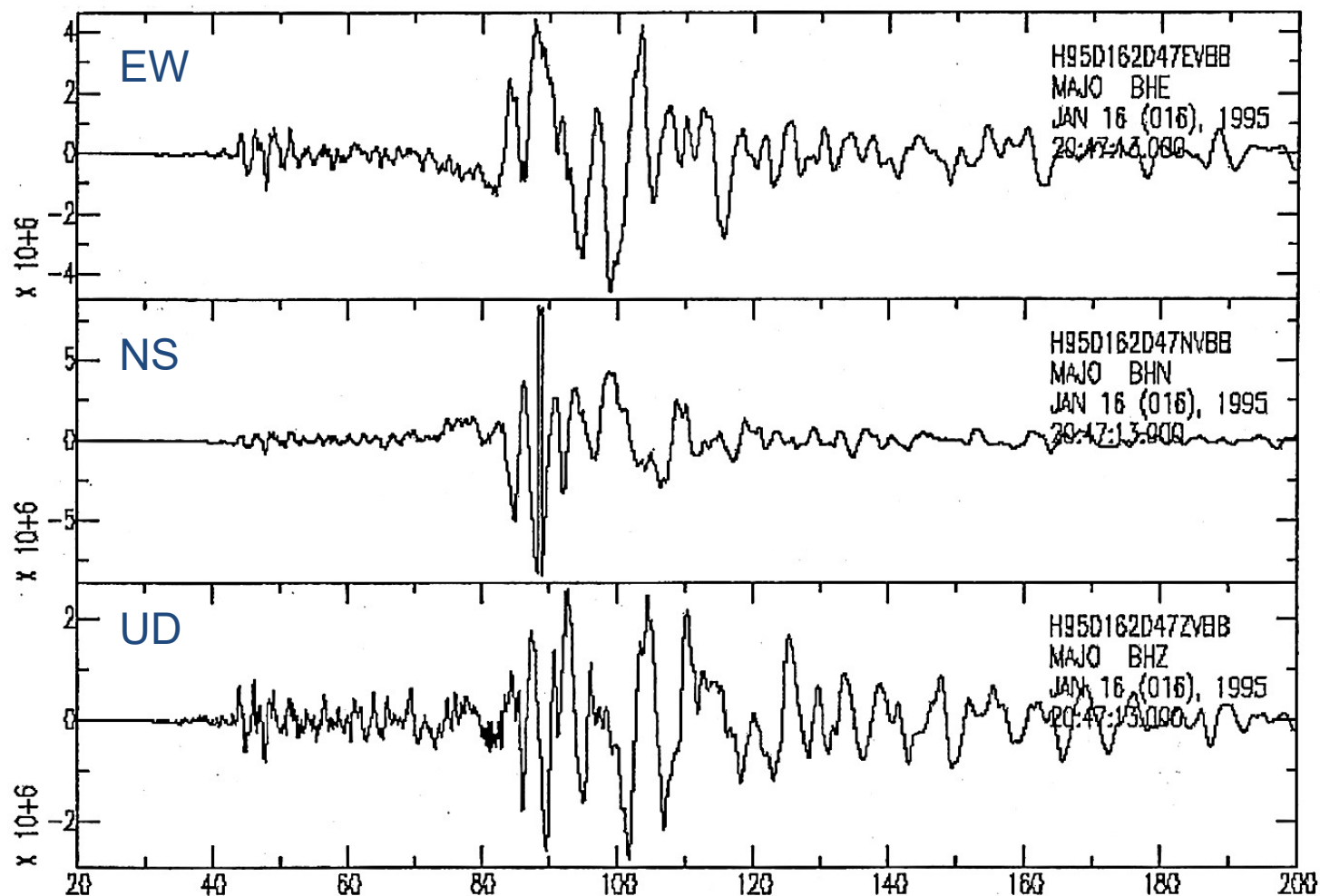
2019.12.23



長野県松代における兵庫県南部地震の波形記録

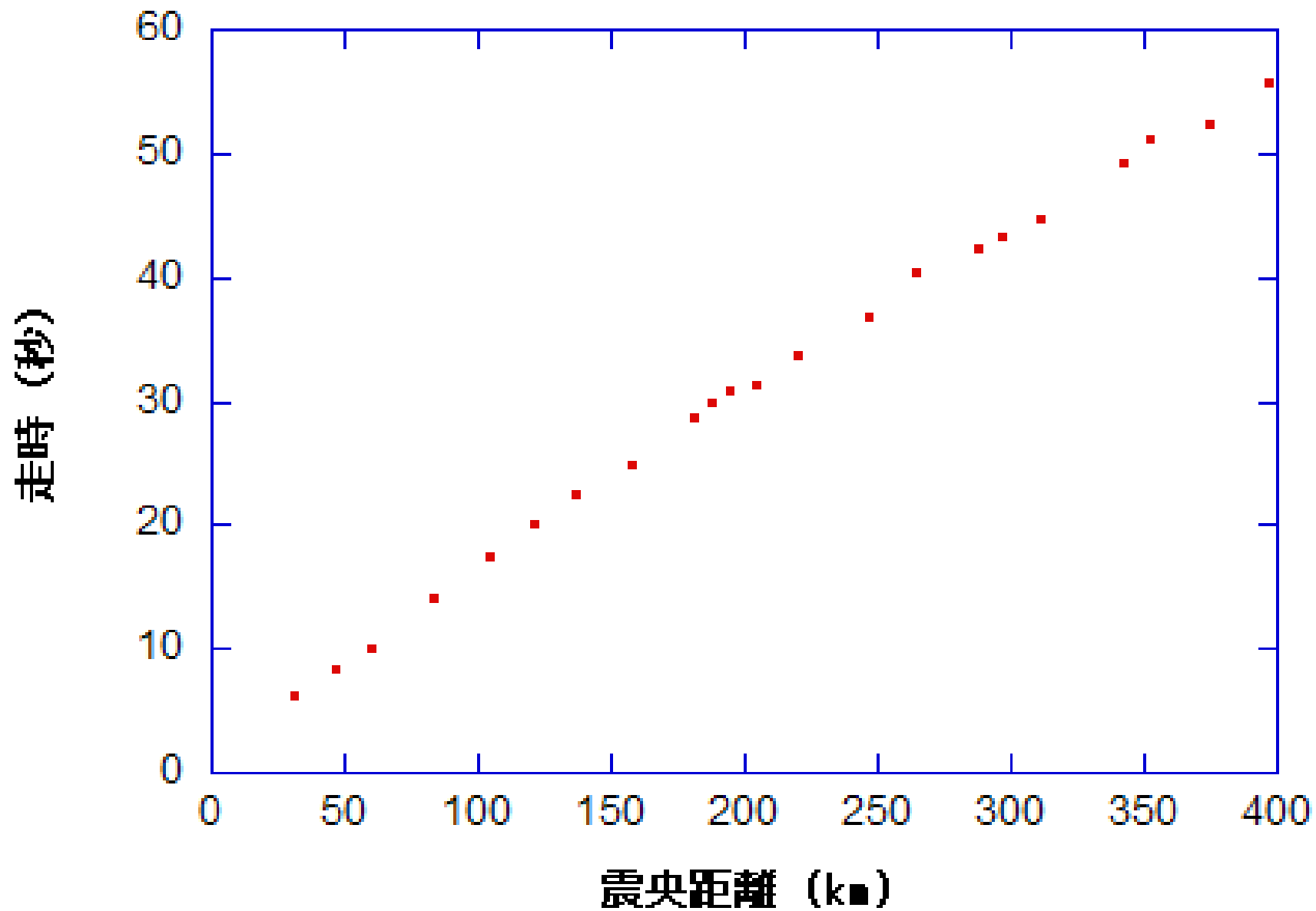
1995 Jan 17

05:47:20.0 (JST)

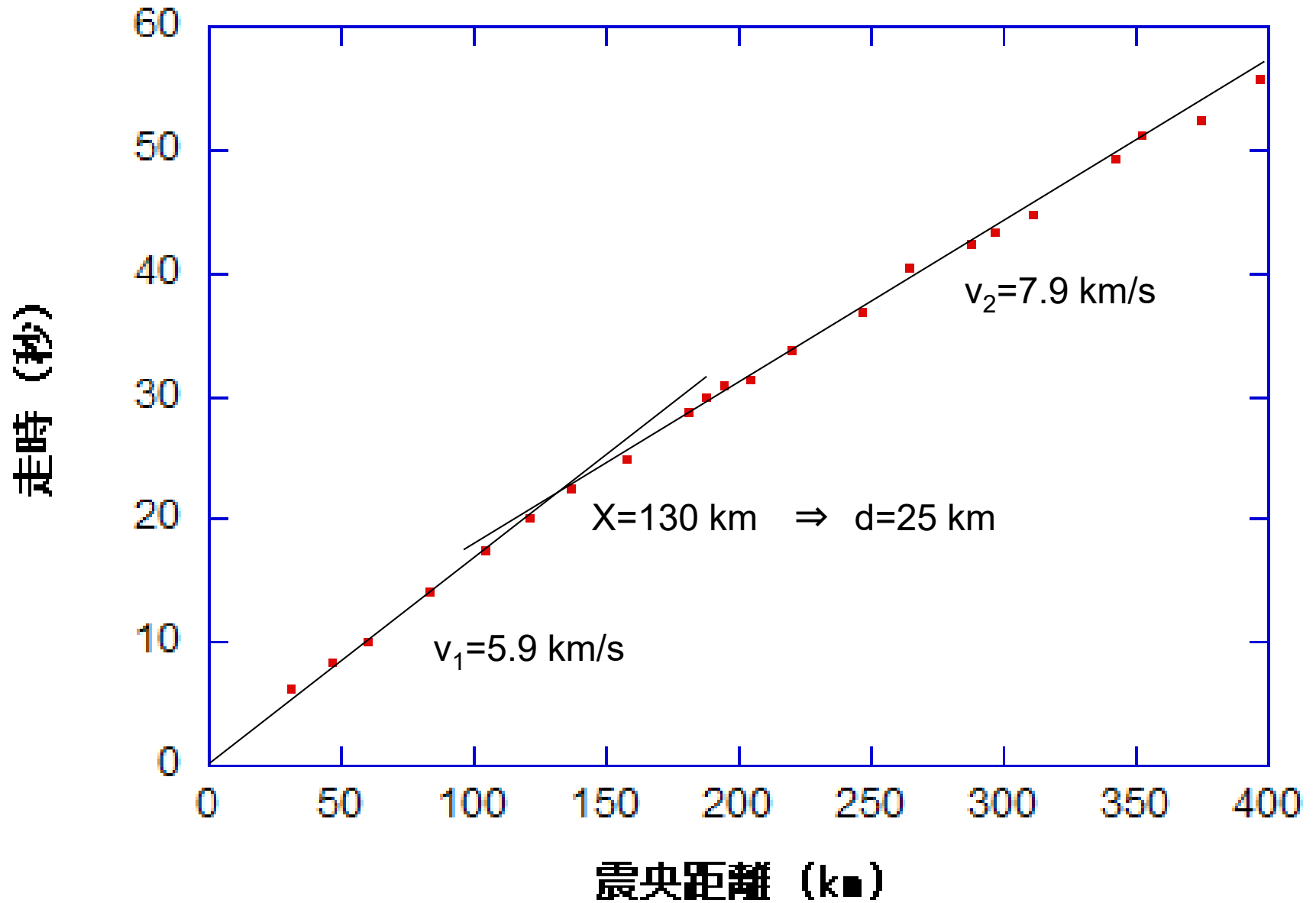


(sec.)

兵庫県南部地震

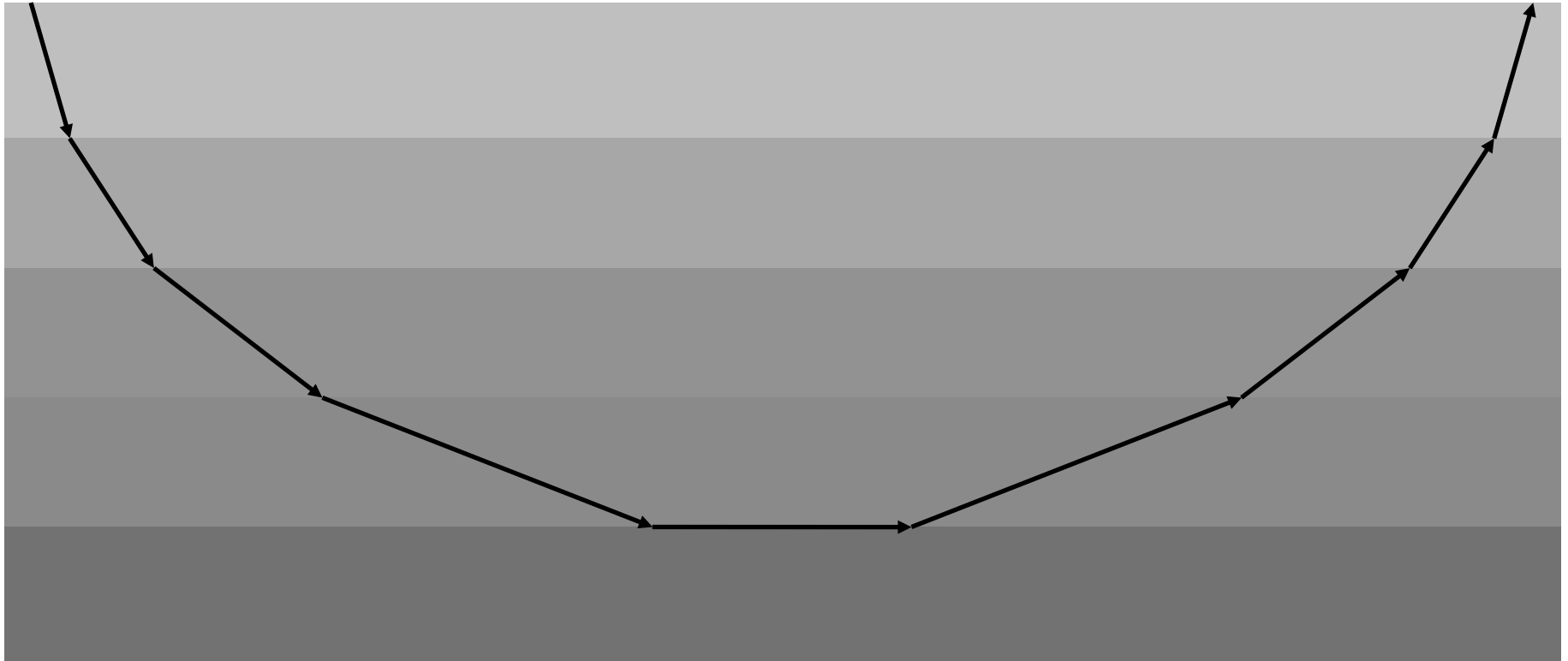


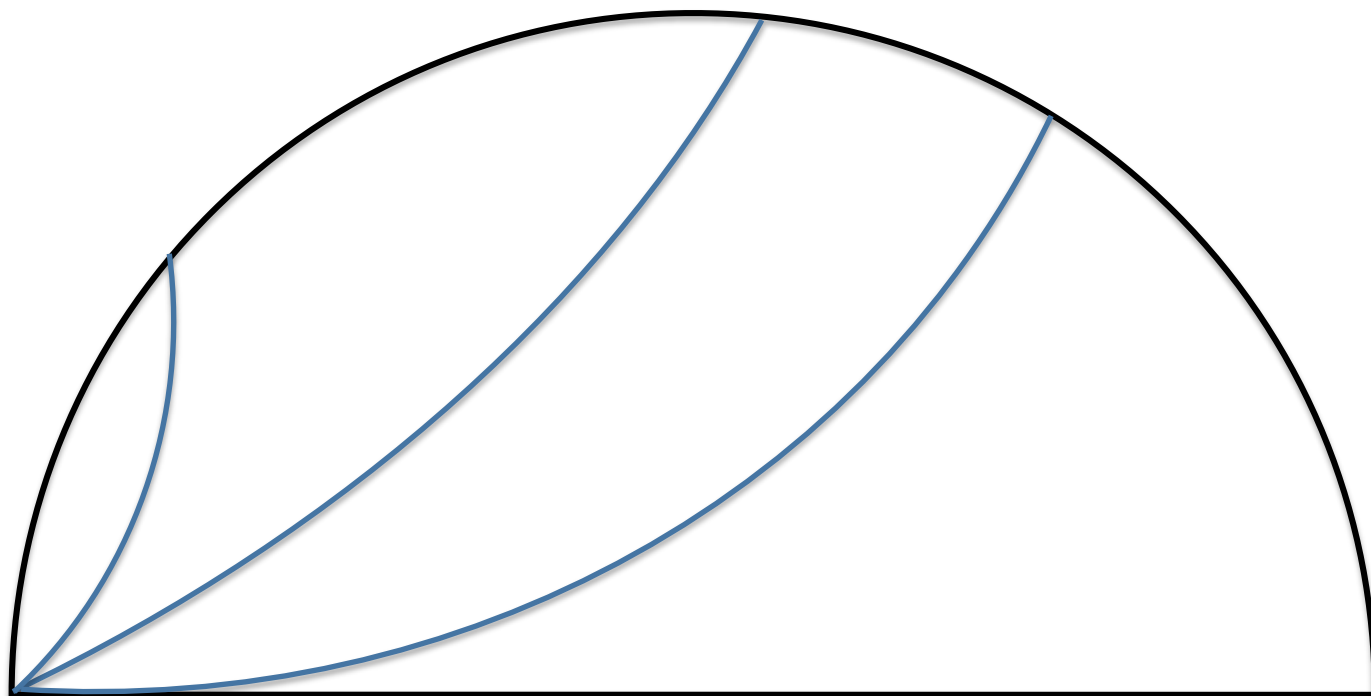
兵庫県南部地震



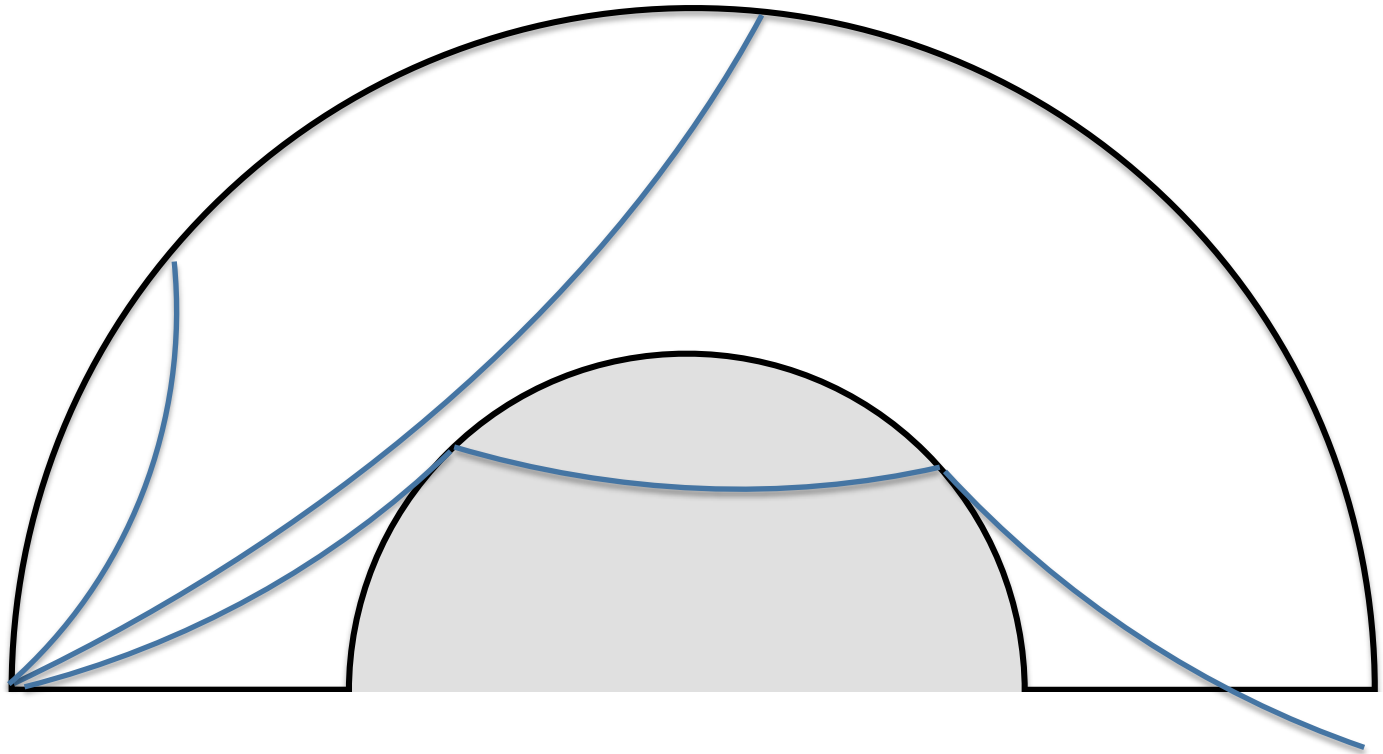
地震波の伝播

深いほど速度が速ければ、入射した波はいずれ戻ってくる

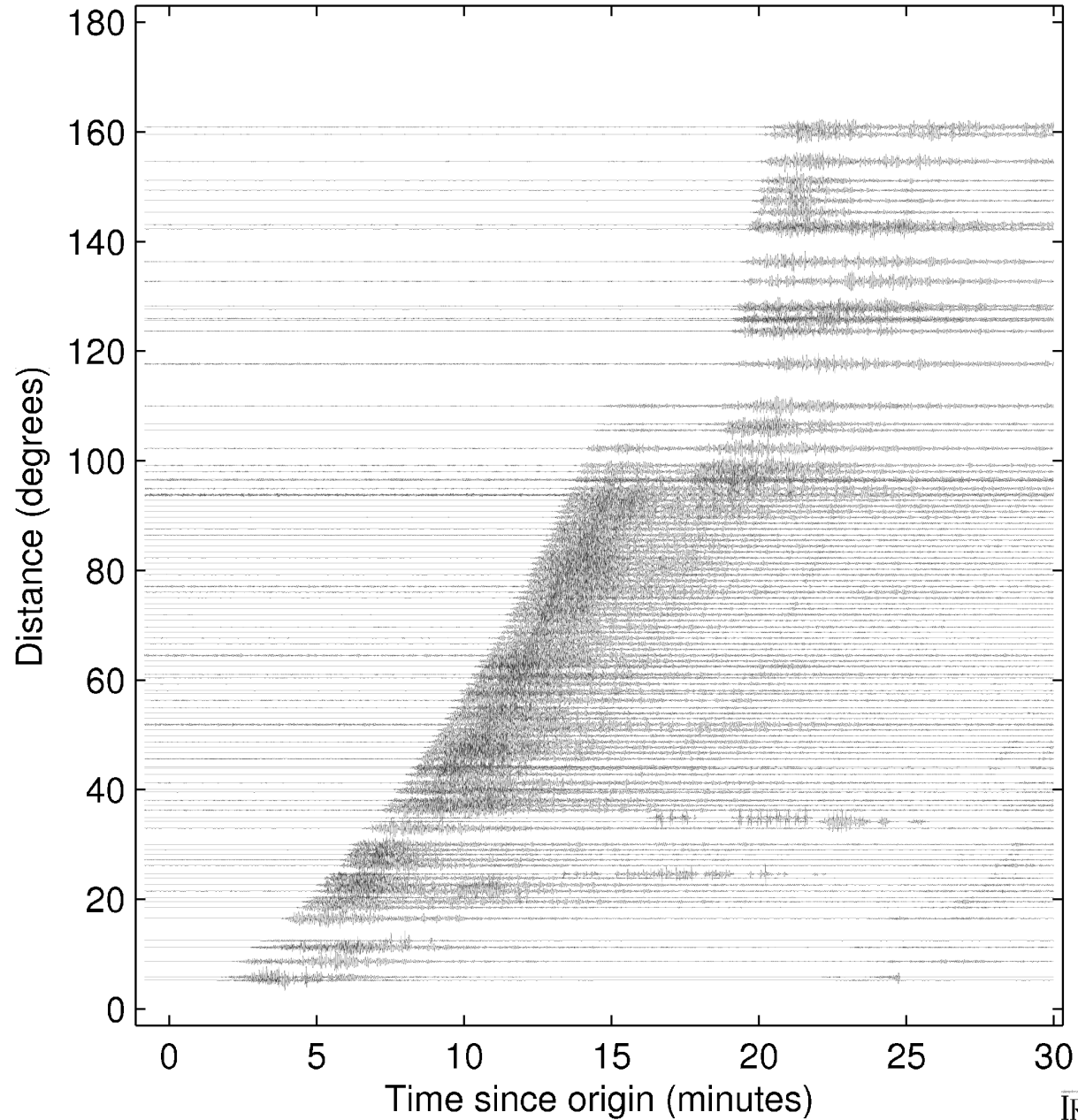




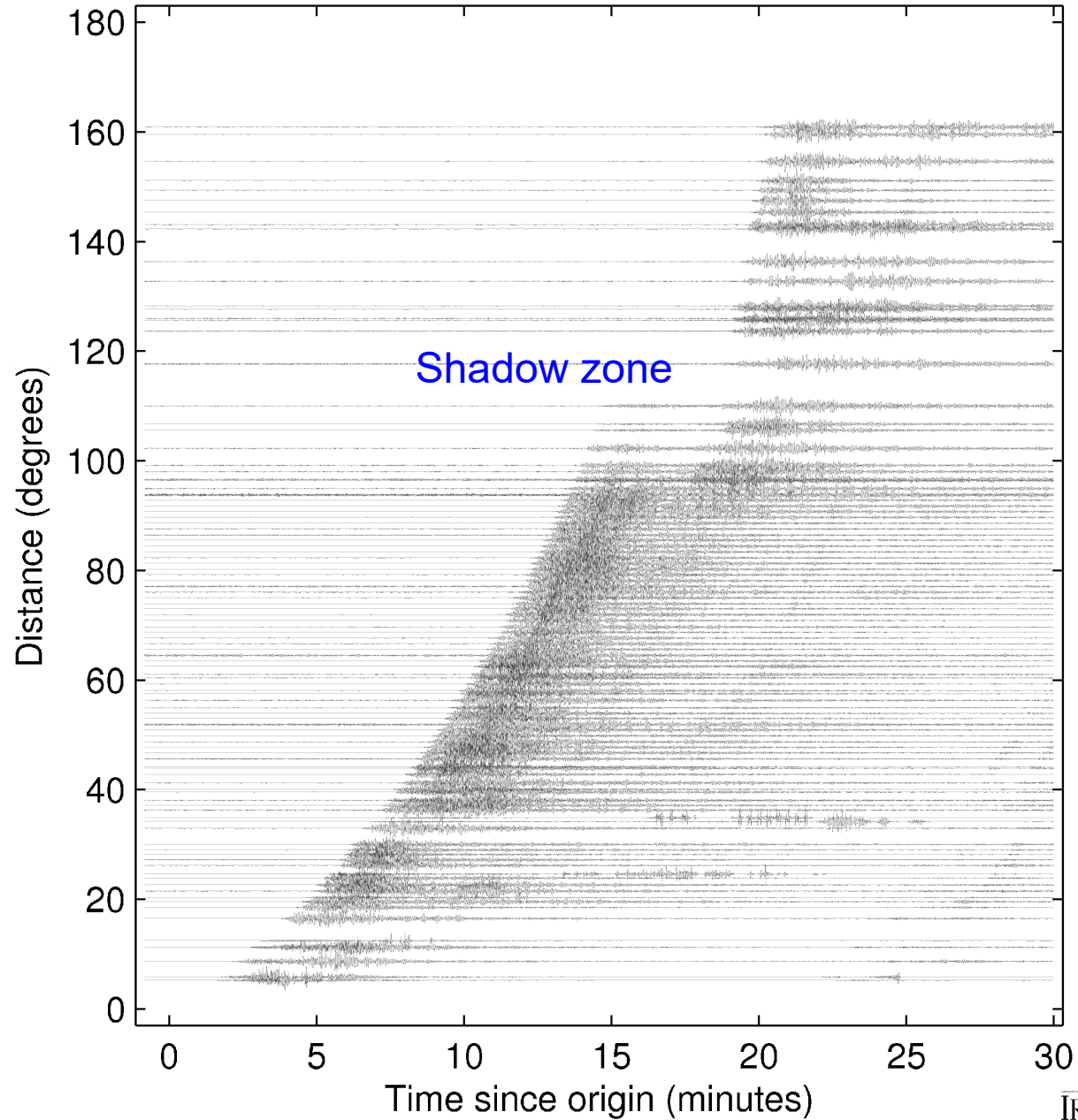
もし深い方が遅くなっていると



Combed and aligned on origin 0.3 – 1.0 Hz BHZ
NEAR EAST COAST OF HONSHU, JAPAN
2011/03/11 05:46:23 M8.9 Z=24.4km Lat=38.3215 Lon=142.3693

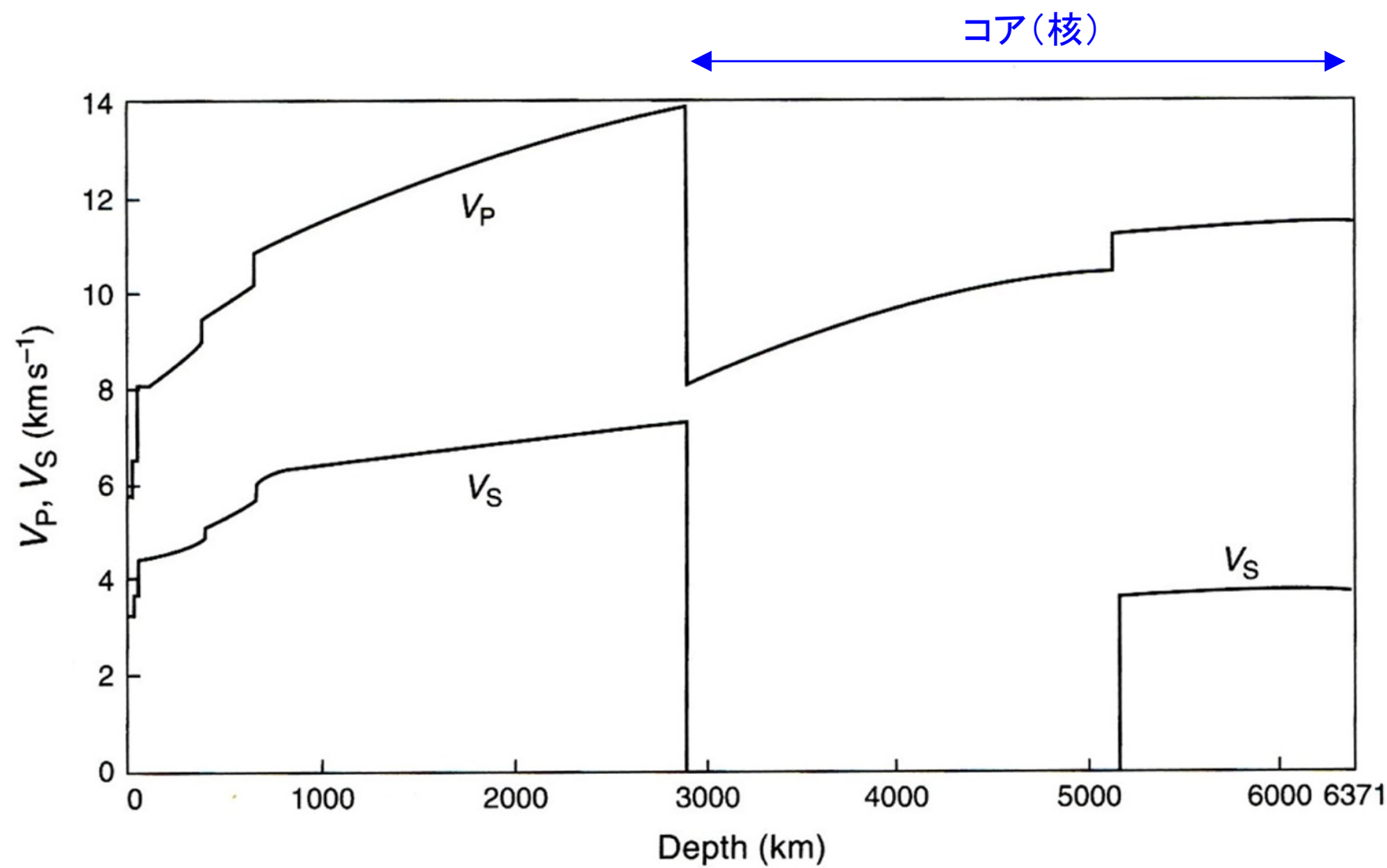


Combed and aligned on origin 0.3 – 1.0 Hz BHZ
NEAR EAST COAST OF HONSHU, JAPAN
2011/03/11 05:46:23 M8.9 Z=24.4km Lat=38.3215 Lon=142.3693



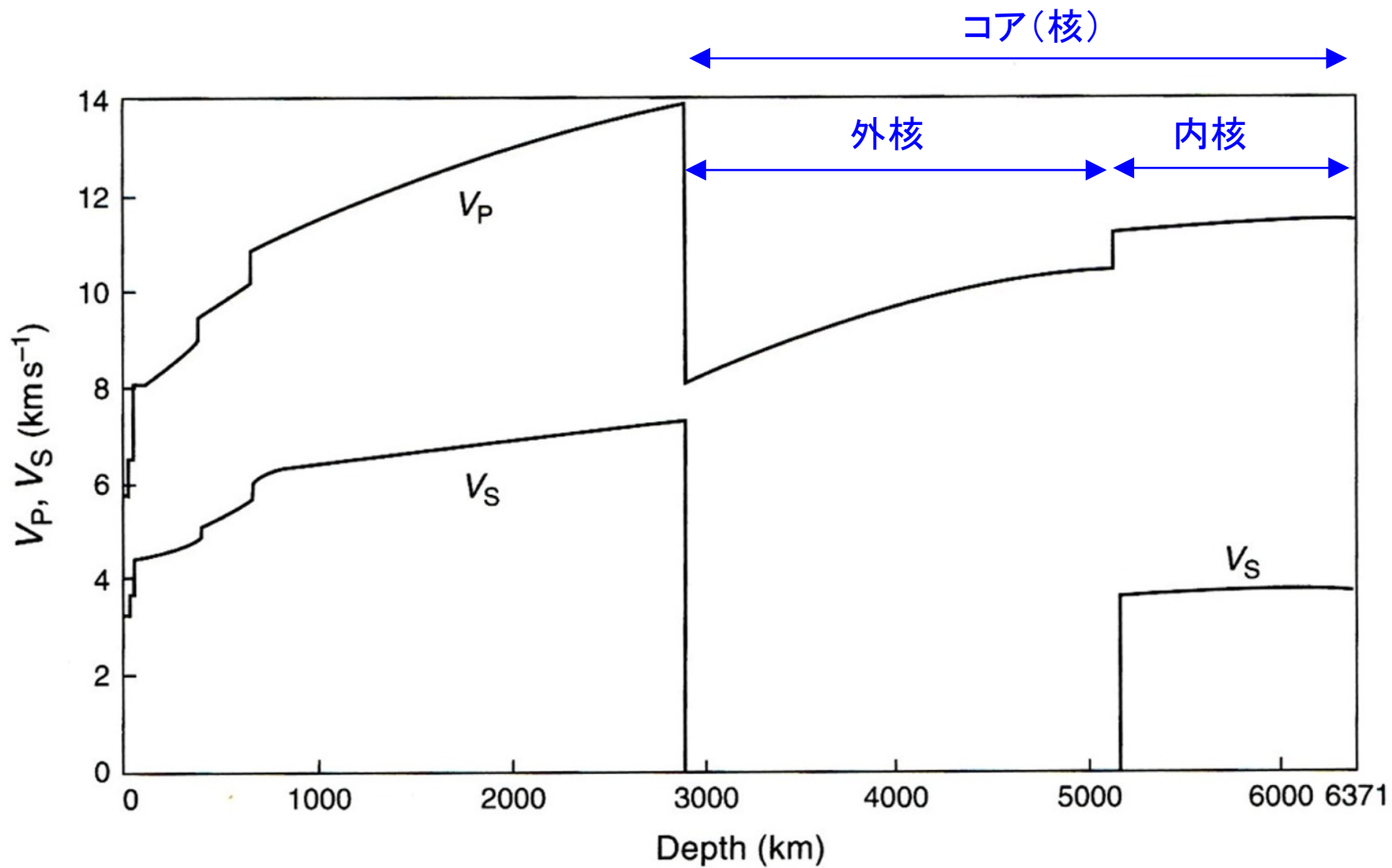
球対称地球モデル

IASP91



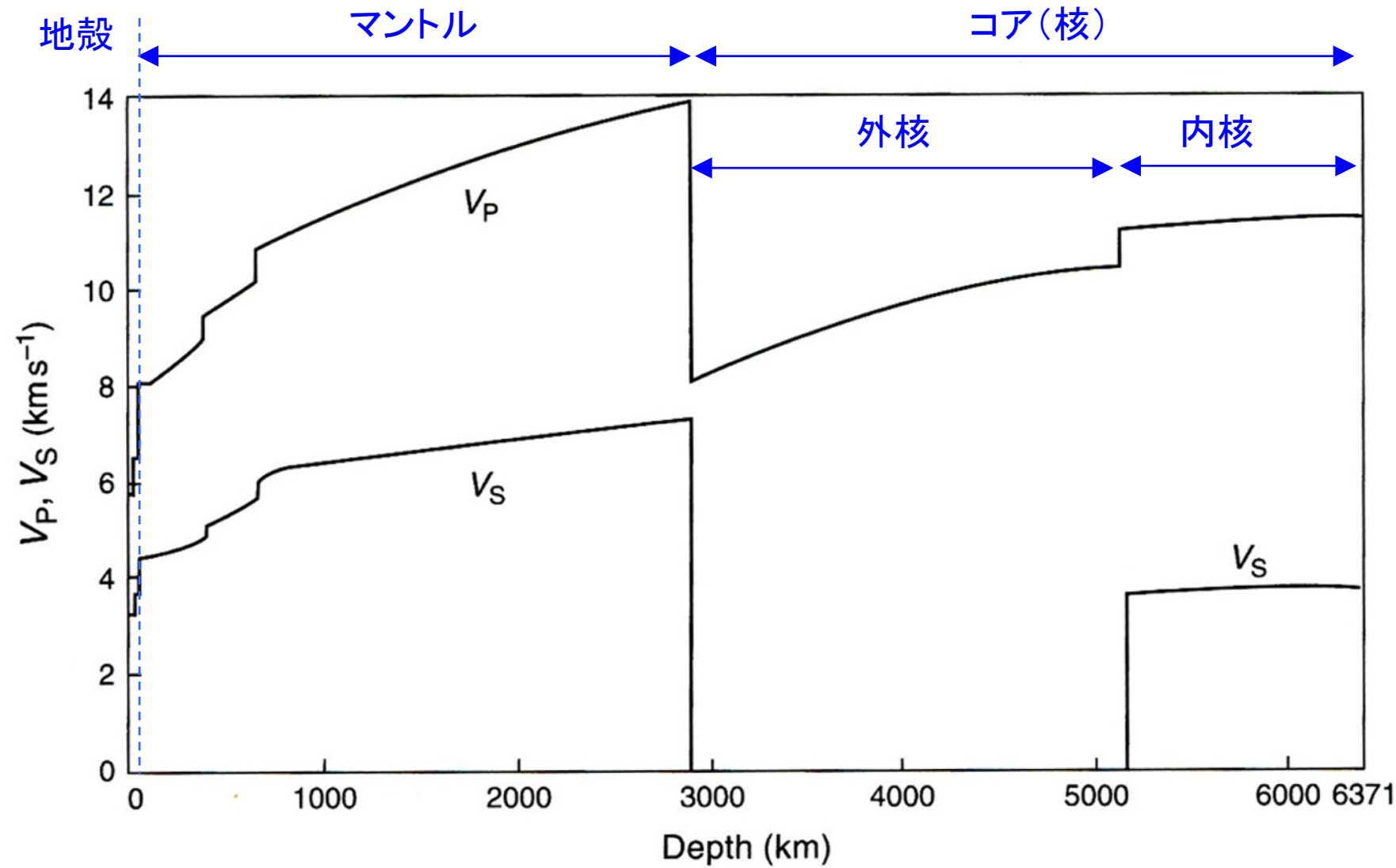
球対称地球モデル

IASP91



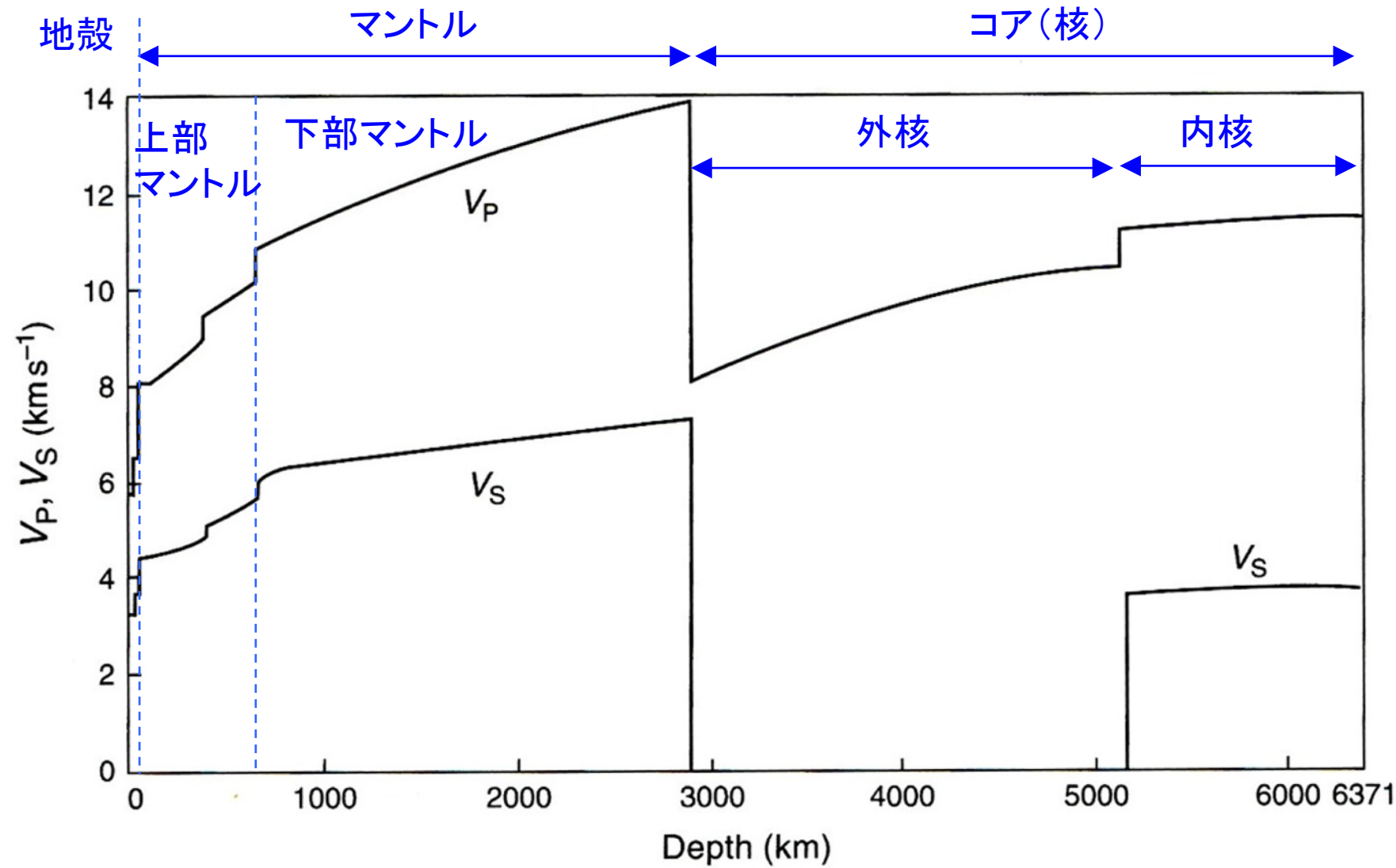
球対称地球モデル

IASP91



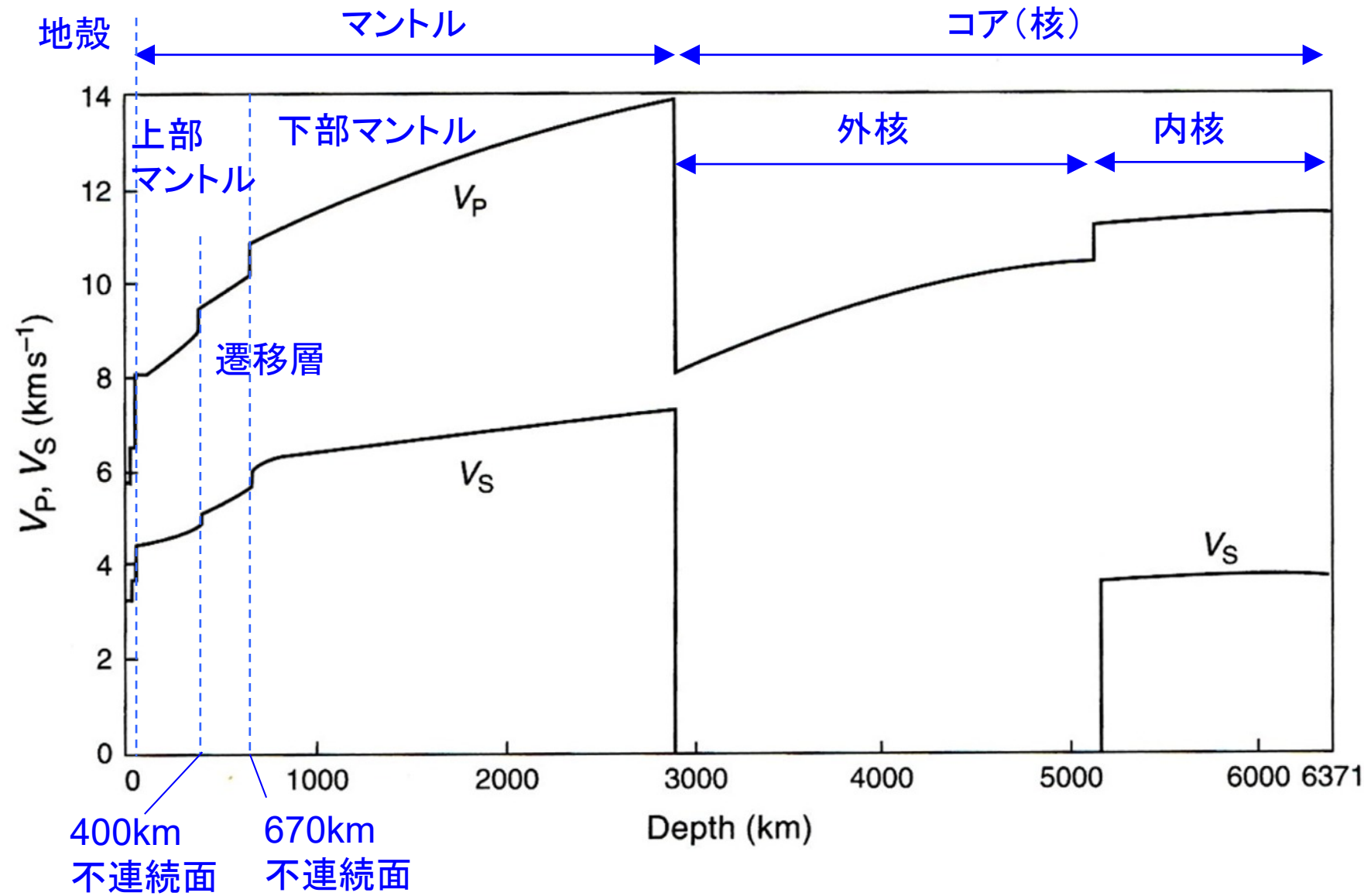
球対称地球モデル

IASP91

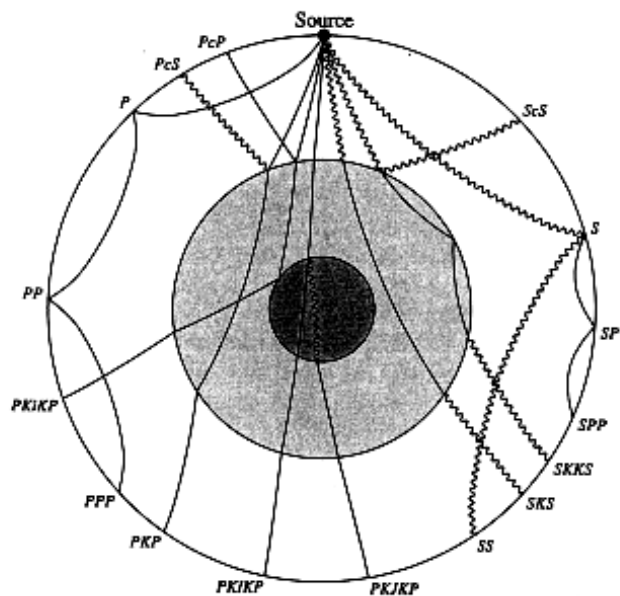


球対称地球モデル

IASP91

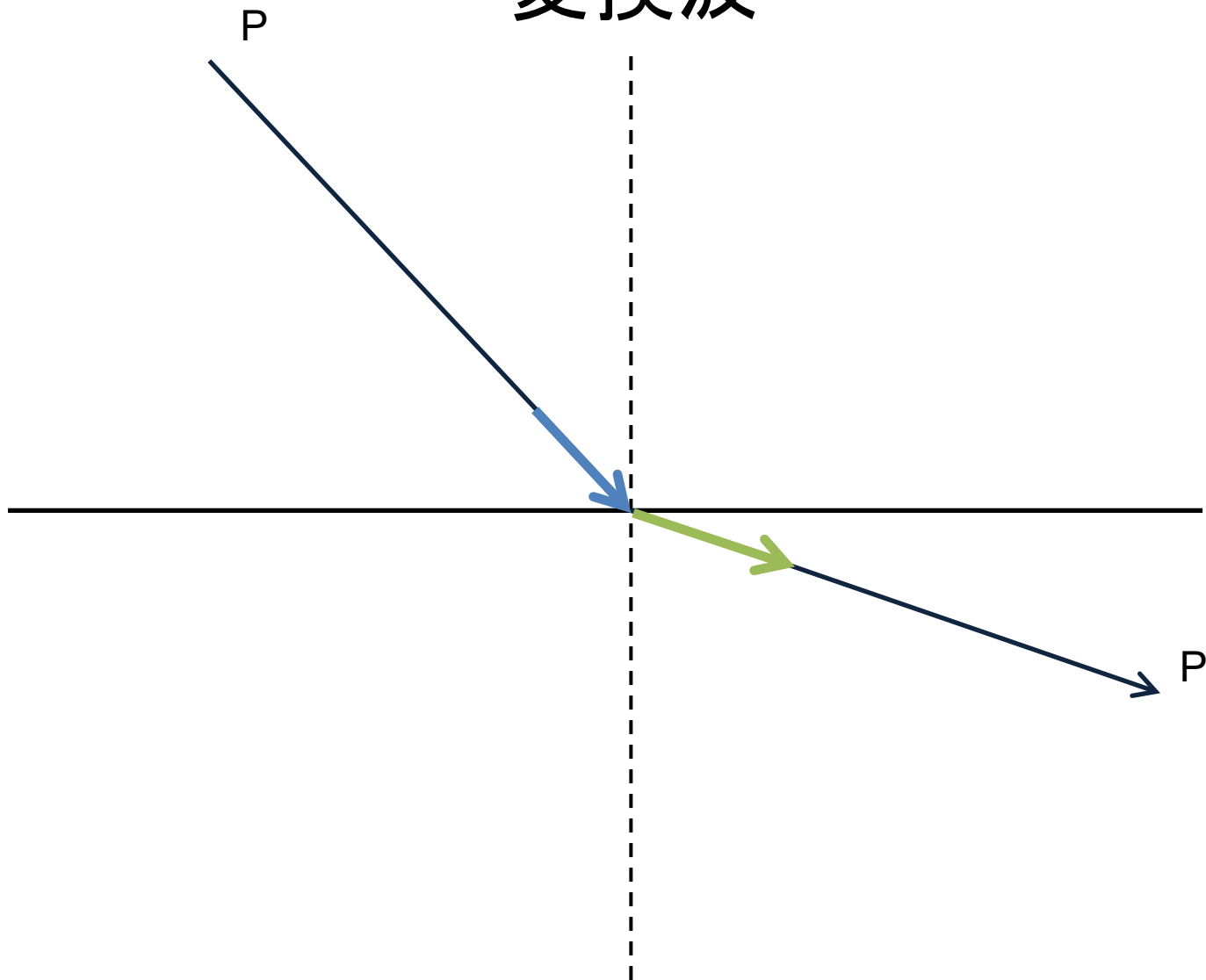


IASP91

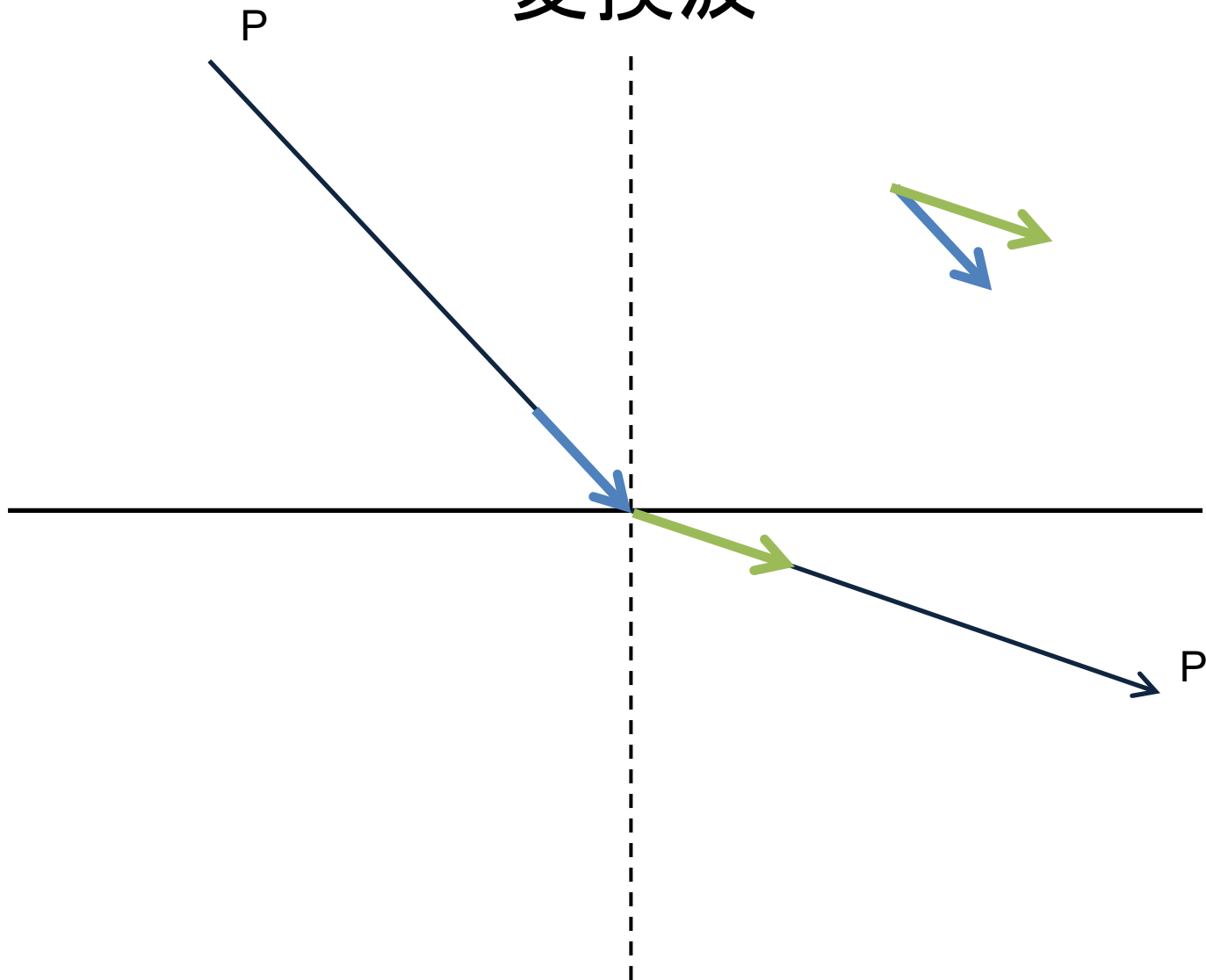


The graph plots Time (minutes) on the y-axis (0 to 60) against Distance (degrees) on the x-axis (0 to 180). It shows the travel time curves for various seismic wave types. A prominent green band labeled "Surface Waves" is shown, along with various other wave types like PKP, SKS, and PPS. The graph also includes a red line labeled "Observed at high-frequency".

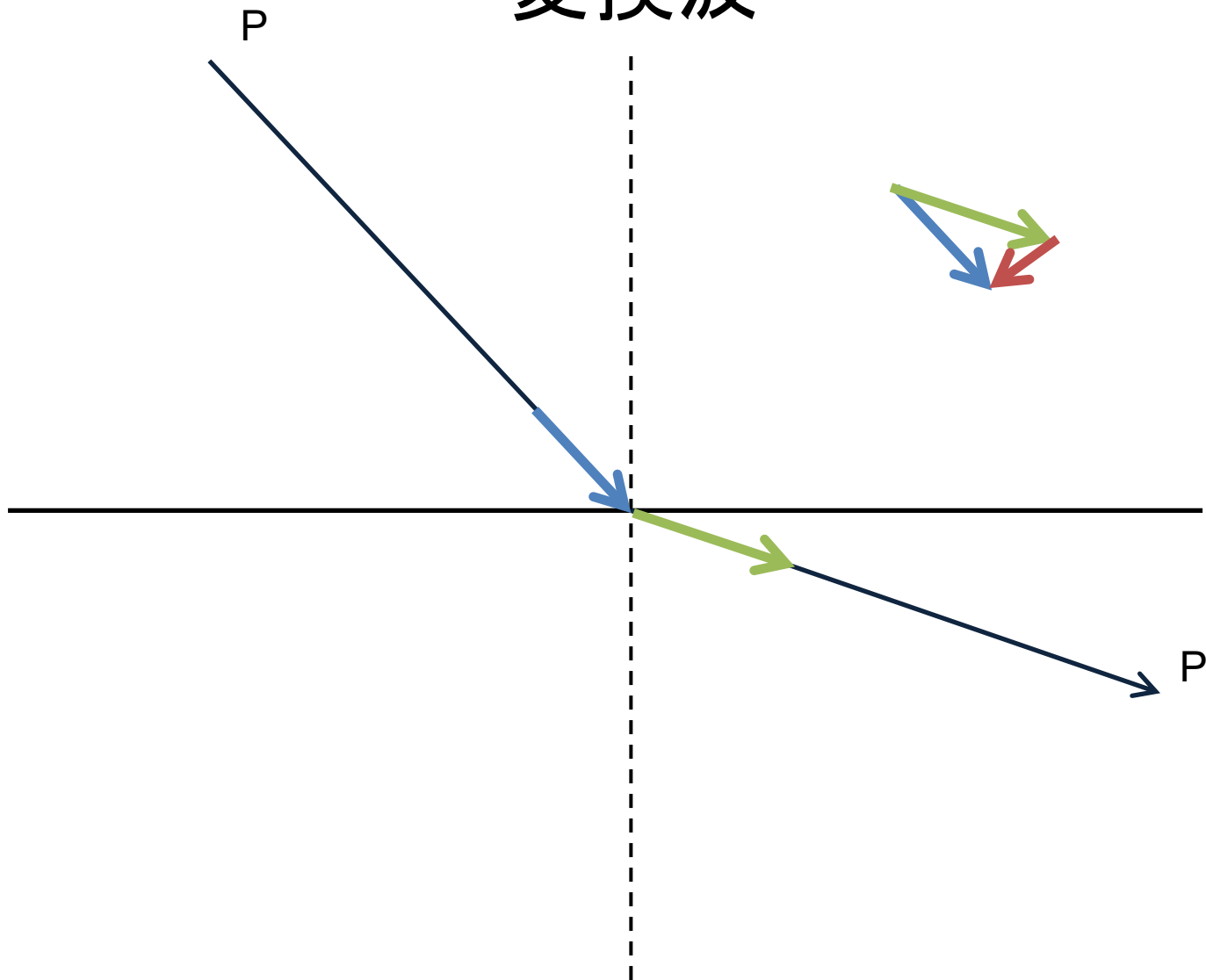
变换波



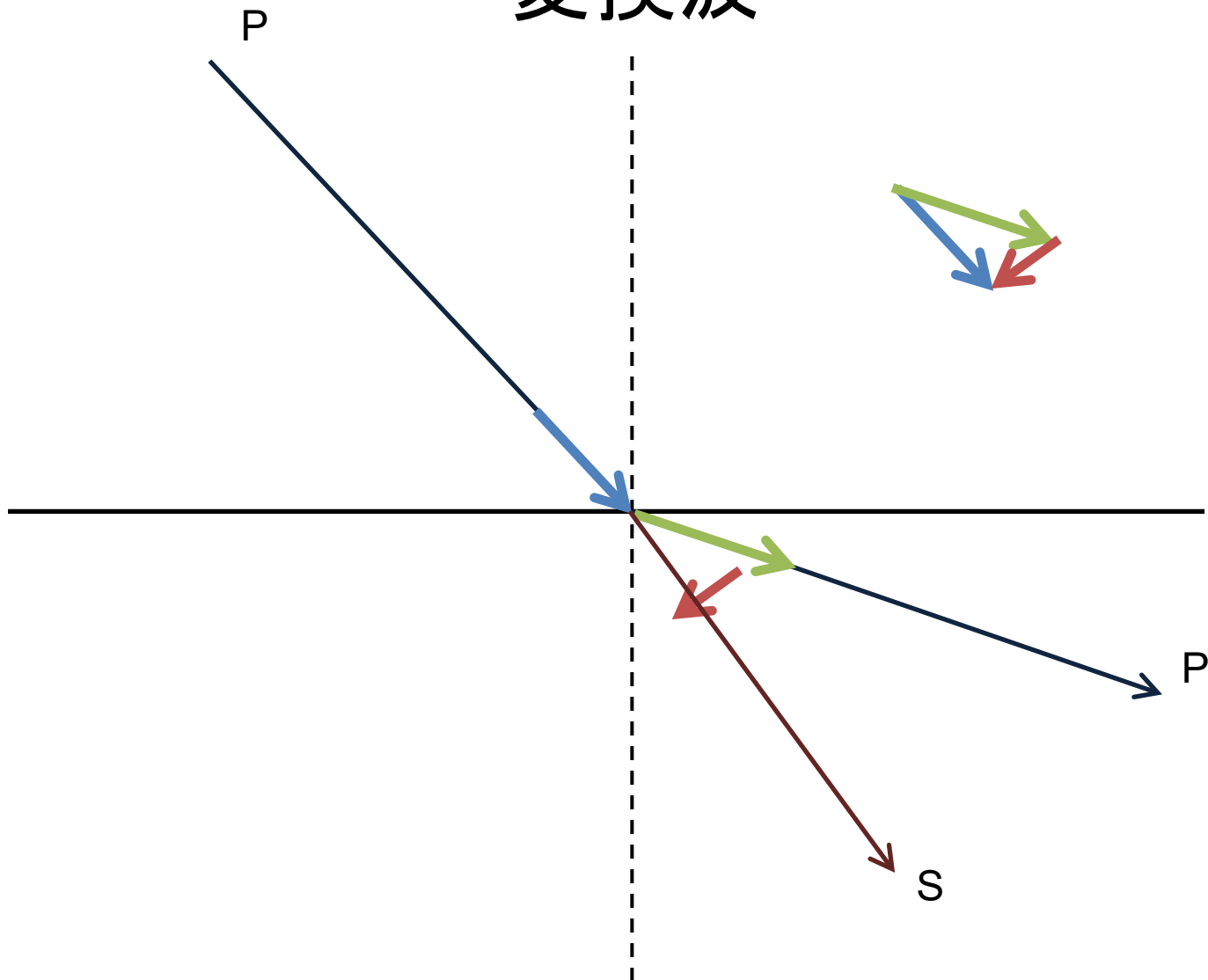
变换波



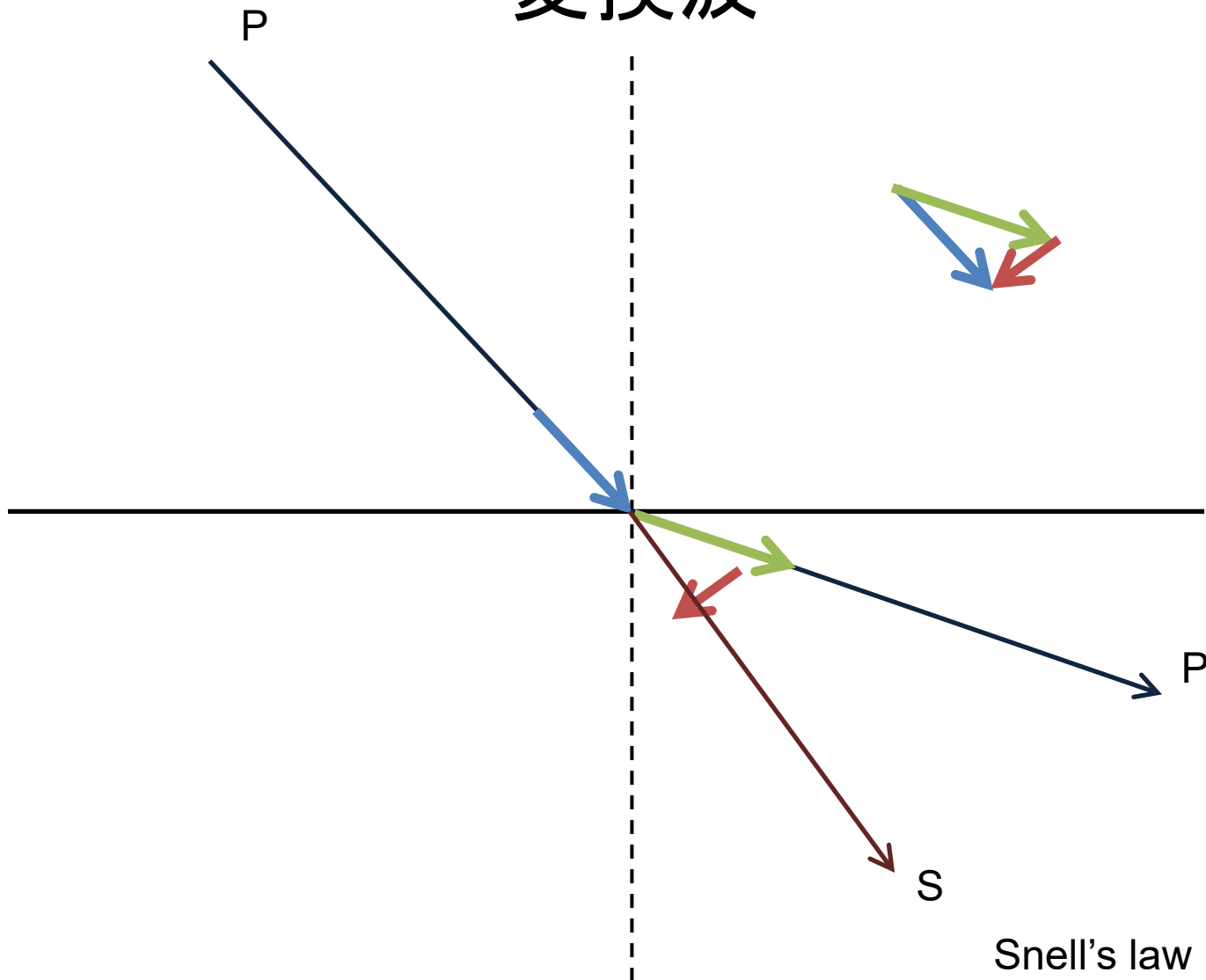
变换波



变换波

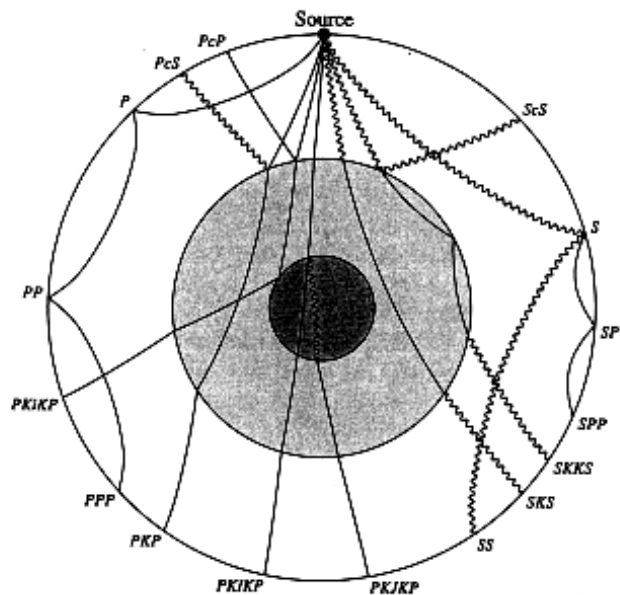


変換波

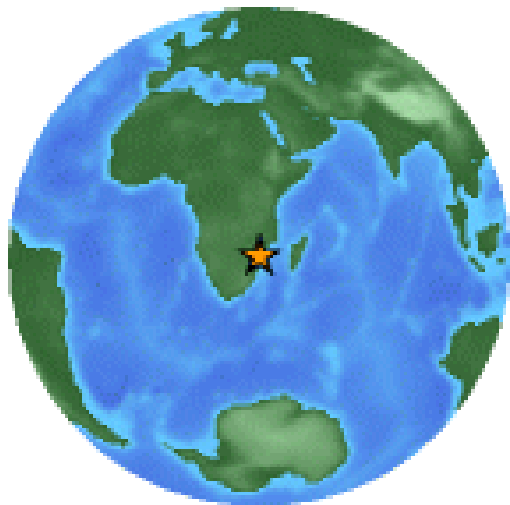


Snell's law を満たす

IASP91

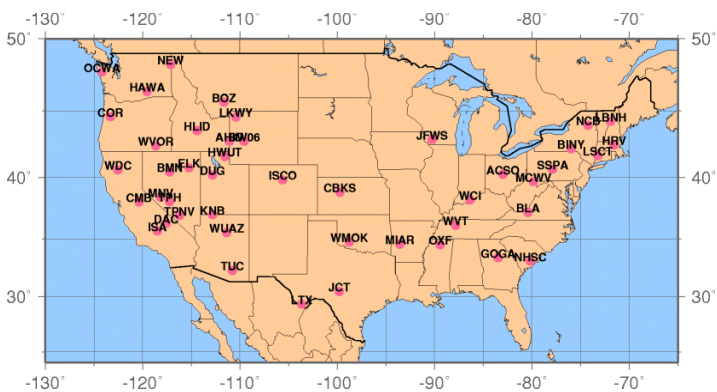
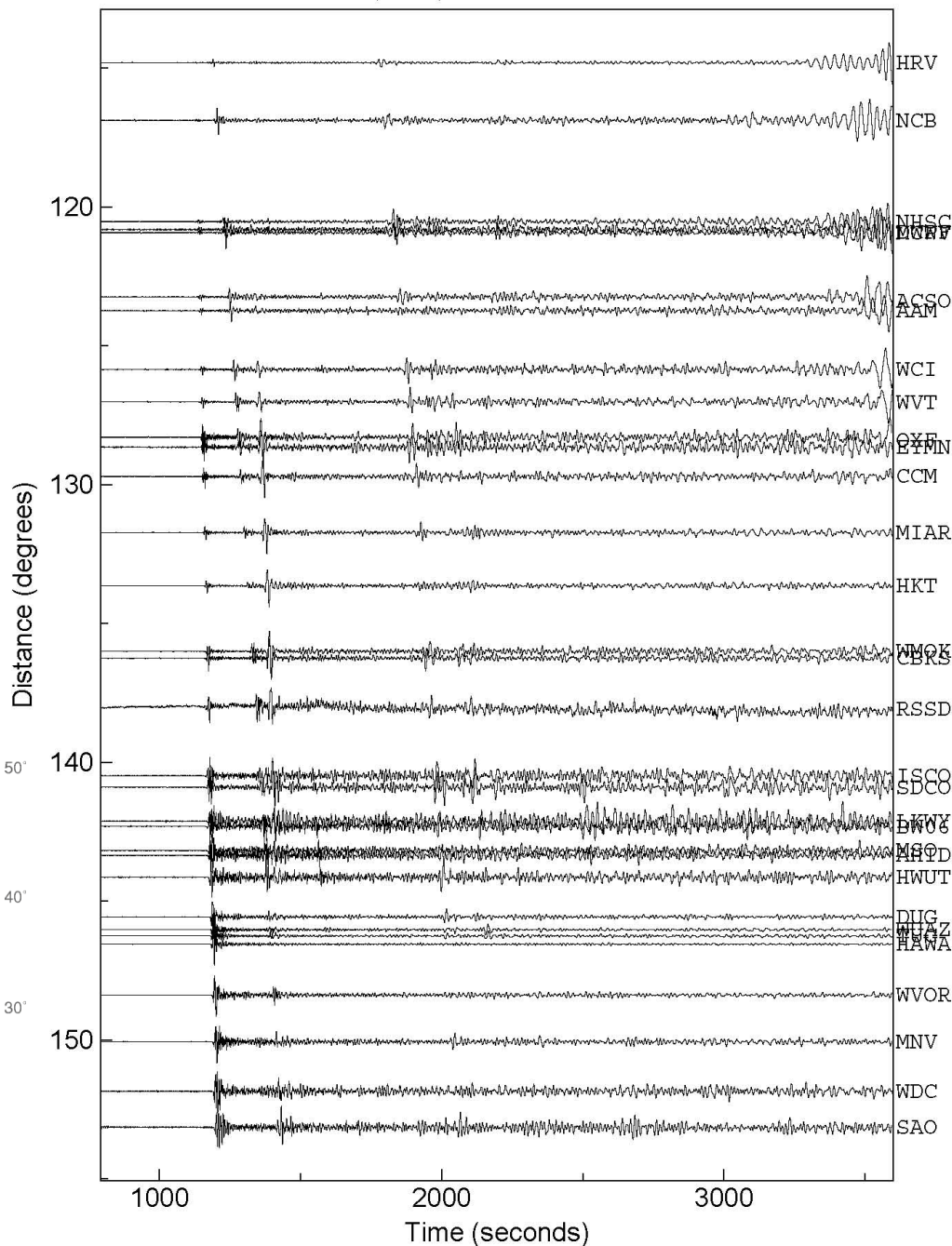
[illegible]

Mozanbique (M7.0)

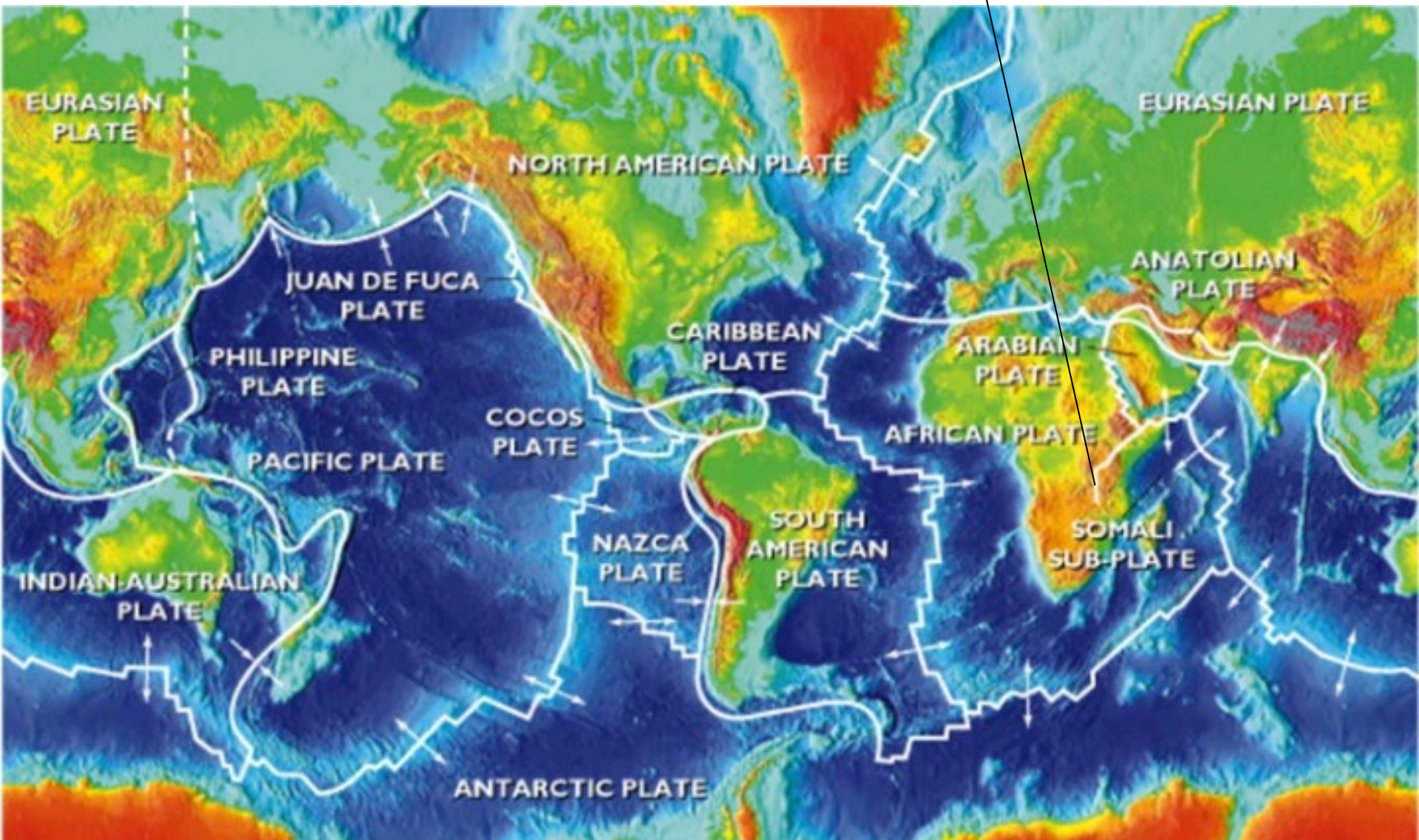


d=11km

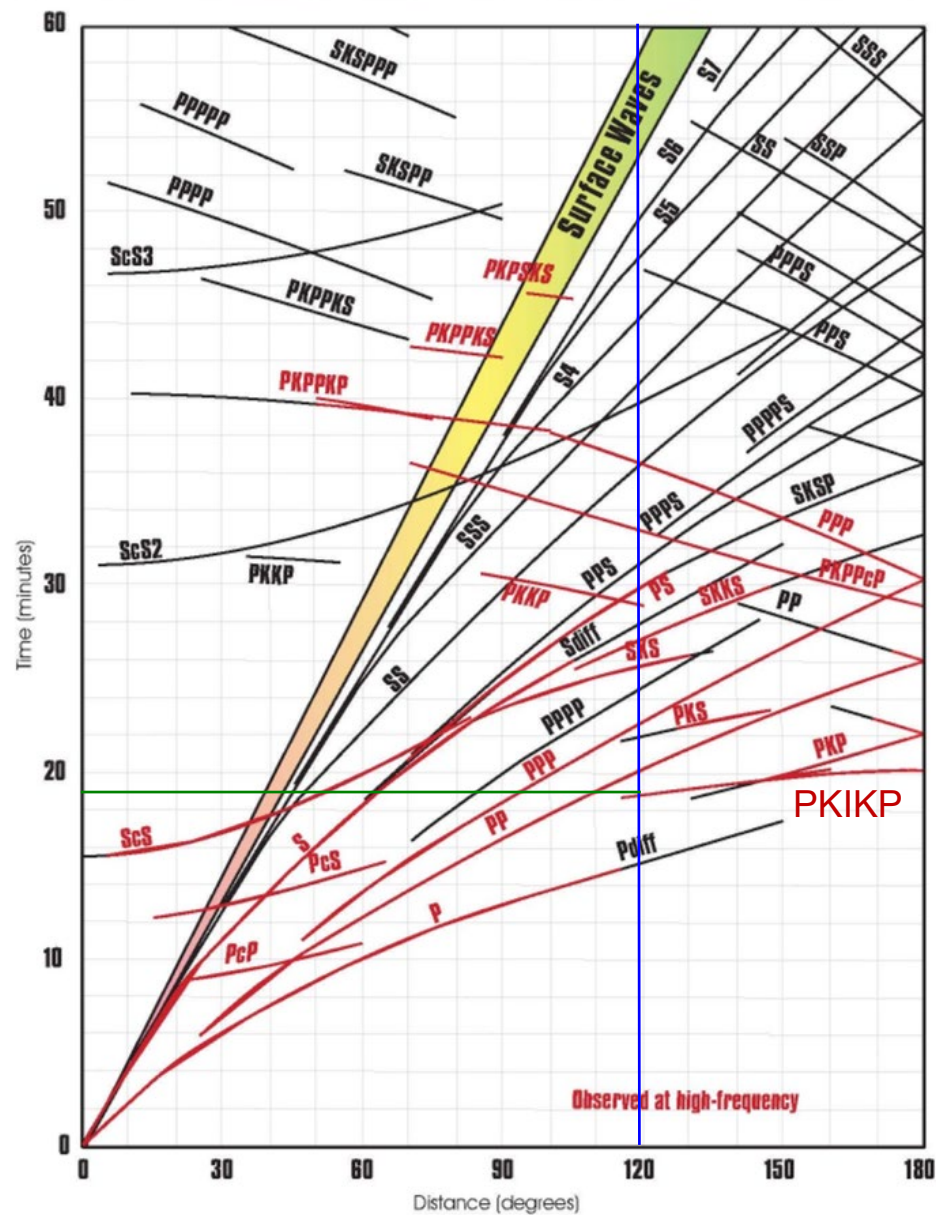
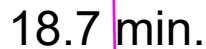
02/22/2006 22:19

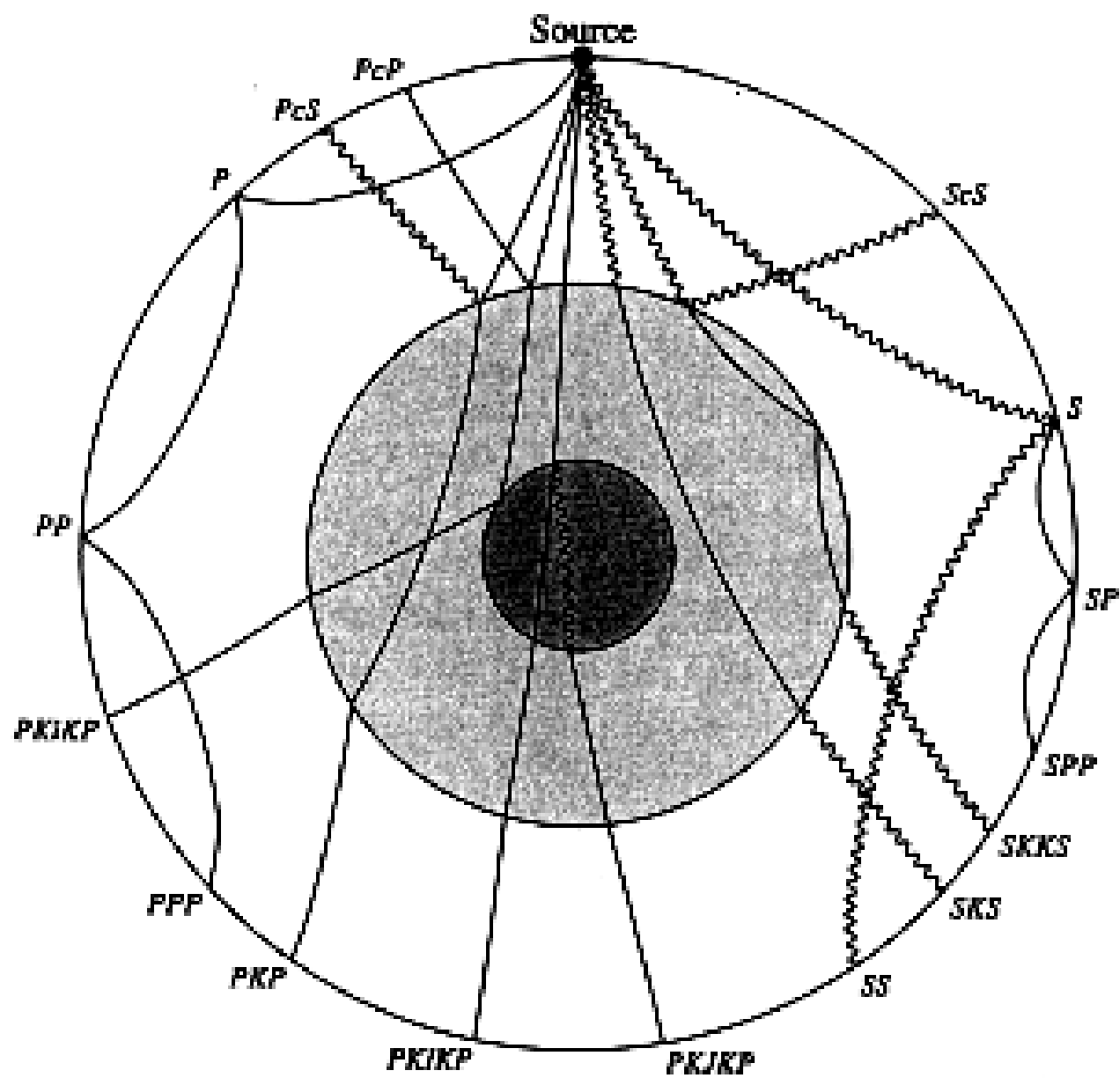


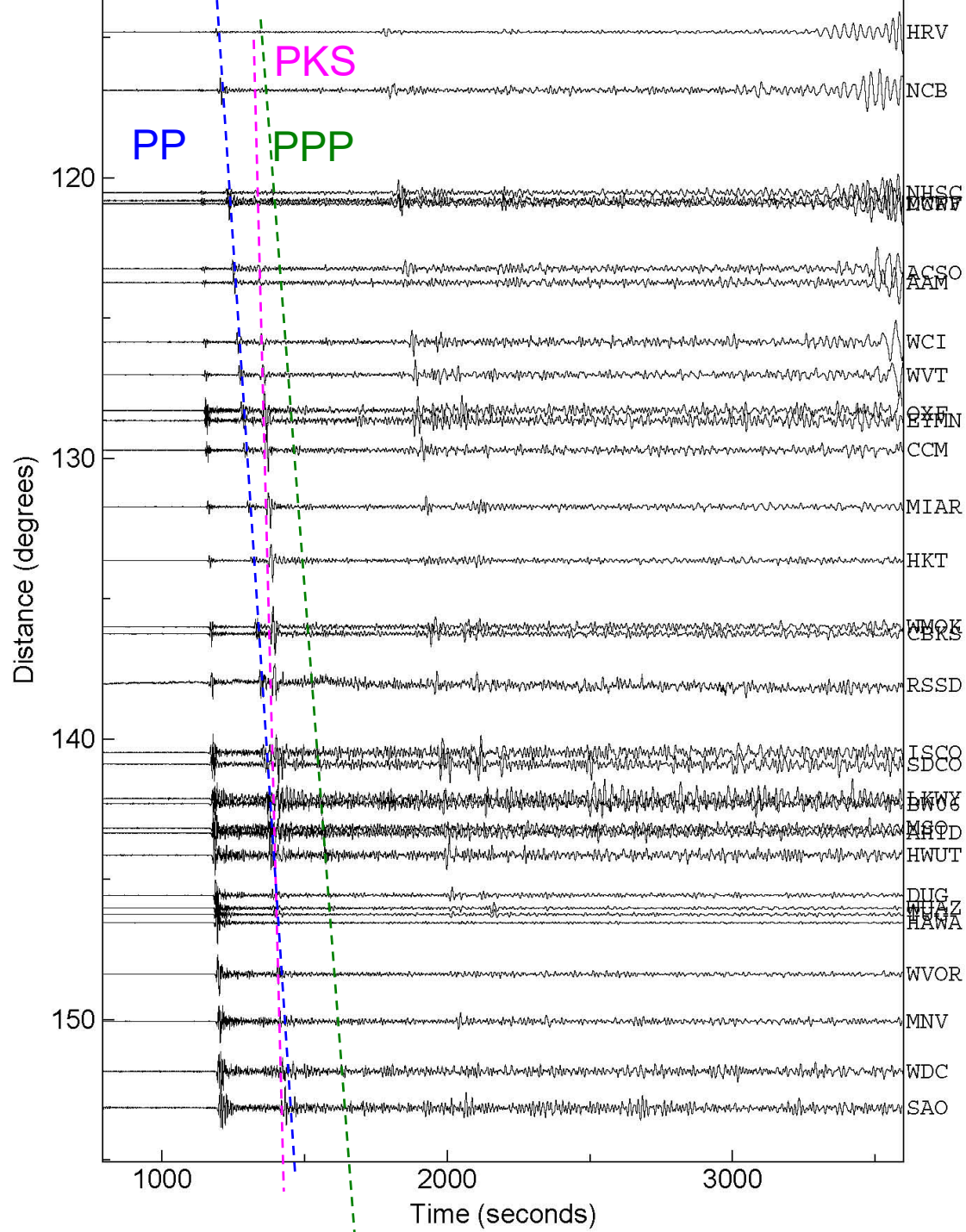
East African Rift

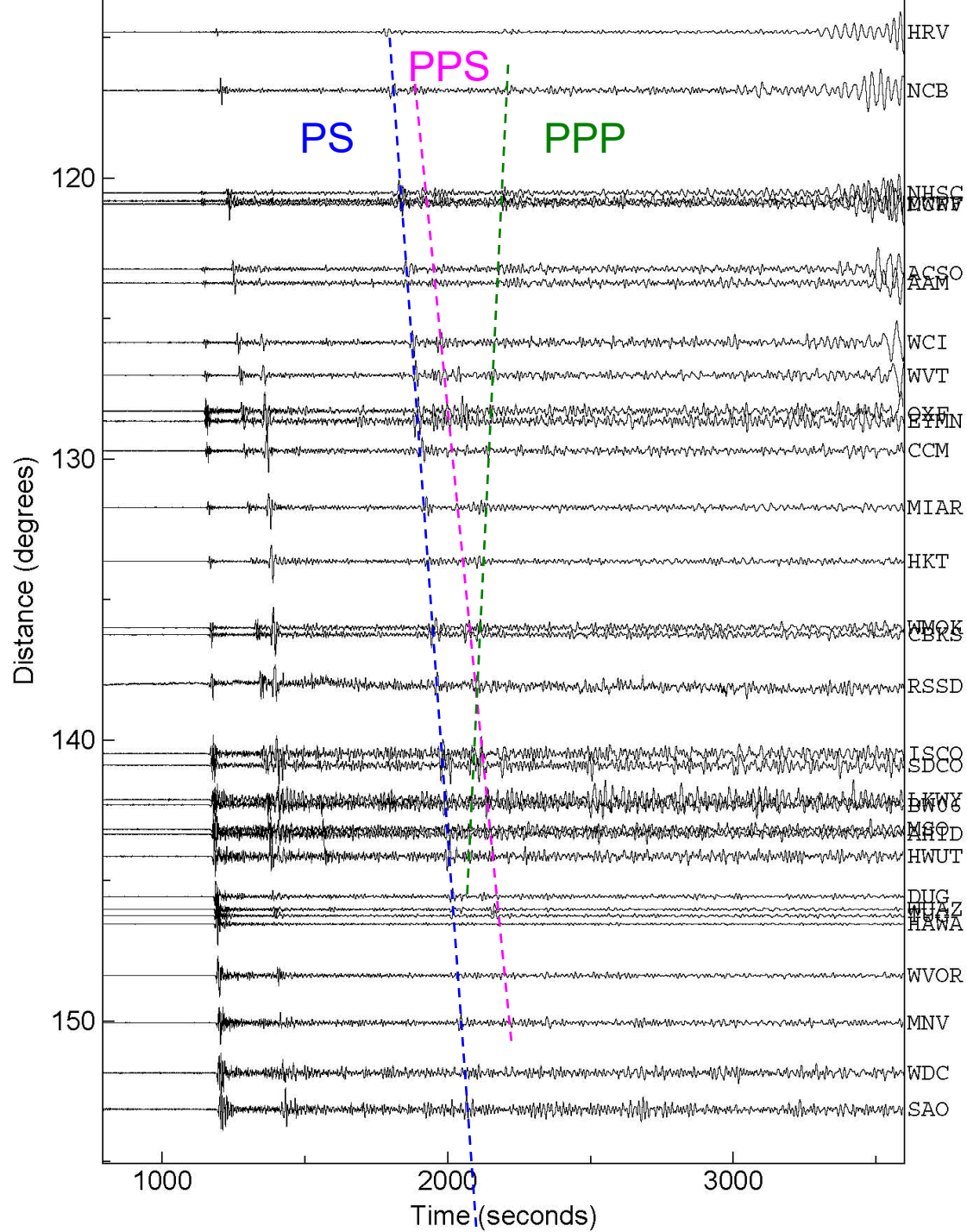


PKIKP



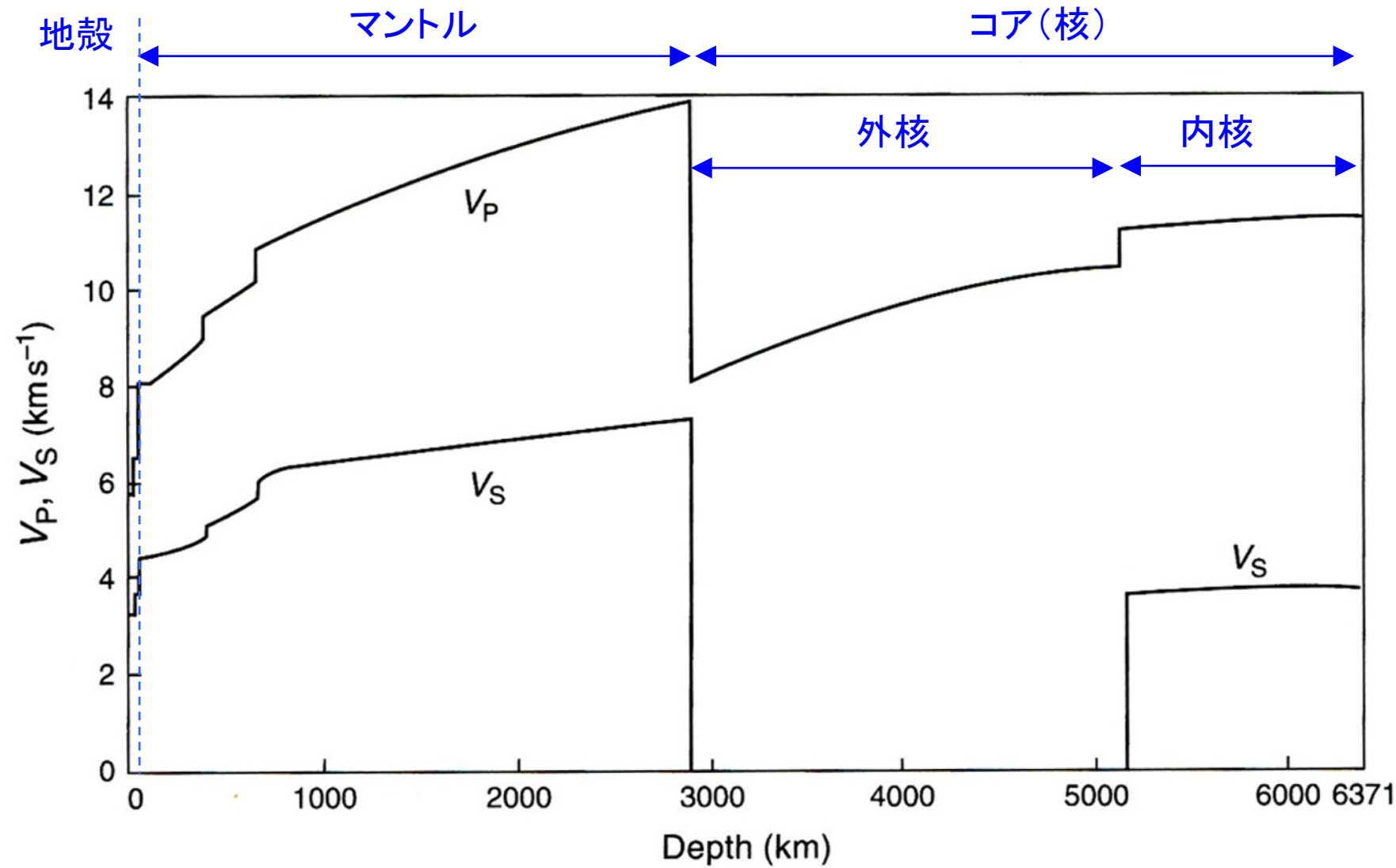


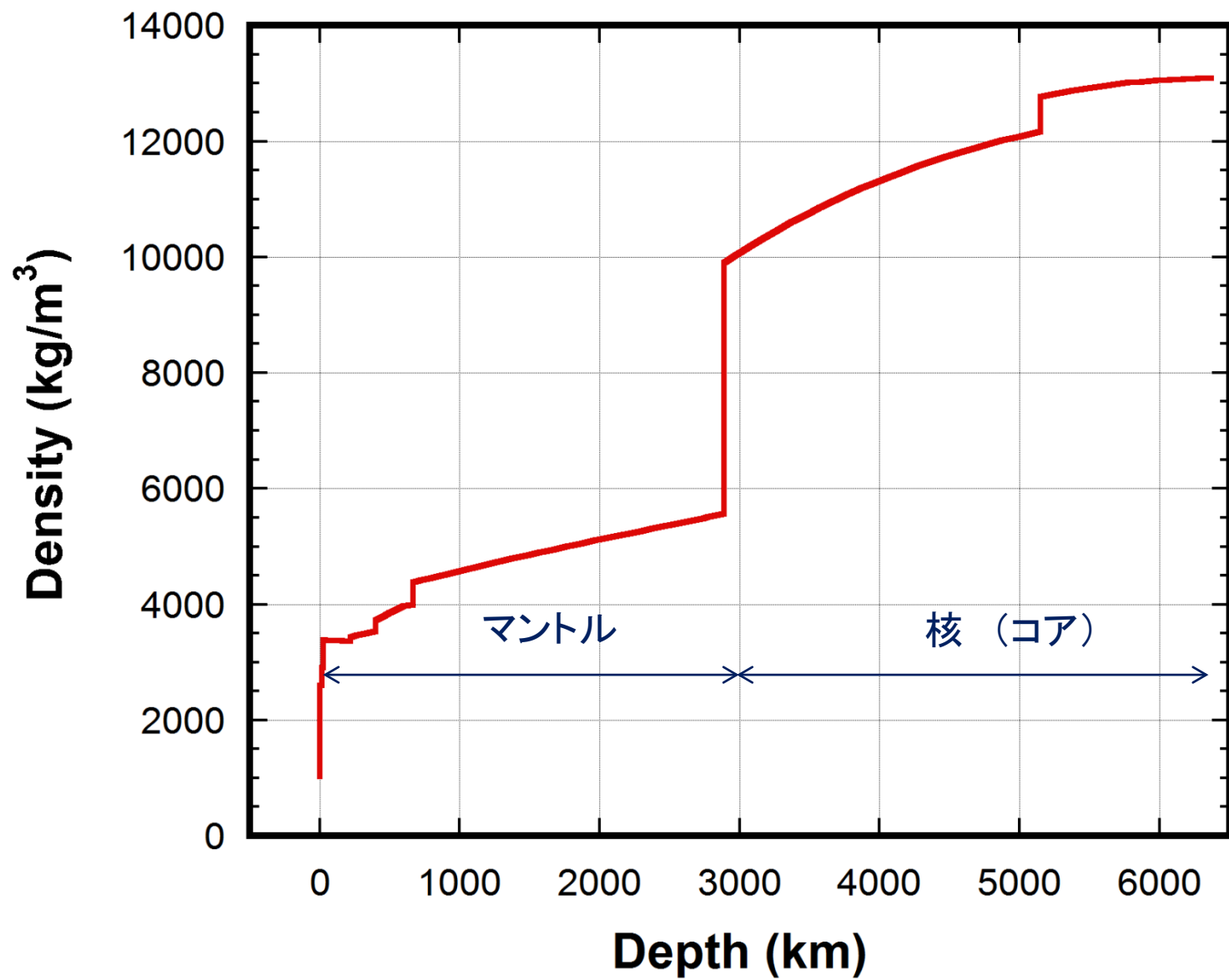




球対称地球モデル

IASP91





Radius (km)	Depth (km)	Vp (km/s)	Vs (km/s)	
5701	670	10.727	5.9129	
5650	721	10.885	6.0612	
5600	771	11.04	6.2067	
5500	871	11.219	6.2768	
5400	971	11.39	6.3436	
5300	1071	11.552	6.4075	
5200	1171	11.707	6.4685	
5100	1271	11.856	6.527	
5000	1371	11.998	6.5831	
4900	1471	12.135	6.6371	
4800	1571	12.266	6.6891	
4700	1671	12.394	6.7394	
4600	1771	12.518	6.7882	
4500	1871	12.638	6.8357	
4400	1971	12.757	6.8822	
4300	2071	12.873	6.9277	
4200	2171	12.988	6.9726	
4100	2271	13.103	7.0171	
4000	2371	13.218	7.0614	
3900	2471	13.333	7.1056	
3800	2571	13.45	7.1501	
3700	2671	13.568	7.1949	
3630	2741	13.652	7.2267	