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# Strong spurious phase in teleseismic correlations

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In the teleseismic correlations of continuous ambient noise data from Fnet array in Japan and Lapnet array in Finland, we observed a clear spurious phase with an apparent slowness of about 4.6 s/deg and an arrival time of about 430 s, far ahead of the P arrival at around 628 s. The spurious signal is rather strong from Fnet to Lapnet, arising from the correlating between the P wave from New Zealand arriving at Fnet and the PKP wave at Lapnet. The spurious phase in the opposite direction is weaker, with the source region locating in the low-latitude Atlantic Ocean near South America. Spurious phases near P and PcP waves are also present.