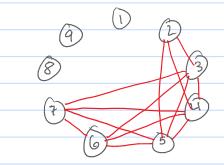
Q \ S A is it c PC . I () (A hand)	
Step 1: is it a PC wave? (what we want)	
1) test for coherence	
,	
Real-world signal is like a sine world times I (window to make it Sinite) Ly pided (f) * W(f) consher window Fairer space	
Ly P (f) * W(f)	tine-frequency
Fourier space	time-frequency as wirdow gets bigger, spread gets smaller
main problem with real world data is that it's finite, but theory is for infinite	
man proven with tollow bout 15 from 115 things, out theory 15 for 14things	f
to and a Newton	
50 only get wiggles	
window detrend	
option · cross-carr between N, E, Z to determine coherence	visualitation of cross-corr on map
to could also do other flyings to measure coherence	
la) model before using data	
(Nyquist At data - 1 minute	
Twindow - choose to match fine scale of overall event	
Twave - resolve the wiggles per of osc is much smaller than undow time *coptimize timescales - job	
The contract the contract of t	
2) do we want to fifter out everything but the PC wave?	
- band pass filter (spectogram)	
2) do we want to filter out everything but the PC wave? - band pass filter (spectogram) f Mmmm ? band pass filter	
r t	
<u> </u>	
how to choose of in Tw - job could also do cross - cory	
COUNTY PLISO CHO (1988) - COLY	
3) coherence measures - between stations	
maybe normalize out amplitude and just do coherence on phase	
- phose scherence (for PC maves)	
(I) network (thresholding) Remaybe it would get rid of the thresholding issues	
like in paper	



Sum over row & column

CCA - uses phase & amplitude	
Phase coherence - normalizes amplitude	.ET3/
La useful for some longitude -	node in the
J	Τ ',
Visualization about results (phase etc.)	
lag - directed network	
2	
everytrally, determine chartering (and other natural	staff

Running mean to detend data (signal)