

Stuff for LUNAR

Looking for the 18-20 yr spectral maximum

- [Currie, 1981](#). Currie R.G.: *Evidence for 18.6 Year Ms Signal in Temperature and Drought Conditions in North America Since AD 1800*, **JGR**, **86**, 11055-11064, 1981. <https://doi.org/10.1029/JC086iC11p11055>. [Currie's Tab A1](#) (18.6 in Temperature, N.E. USA)
- Pokrovsky O.M. (2019) *Cloud Changes in the Period of Global Warming: the Results of the International Satellite Project*. **Russian Academy of Sciences**, <https://journals.eco-vector.com/0205-9614/article/view/11444>
- [Yndestad, 2003](#). Harald Yndestad: *A Lunar nodal spectrum in Arctic time series*, **ICES CM 2003/T:02.**, freely available at: [ICES CM 2003](#)
- [Yndestad et al., 2008](#) Harald Yndestad, William R. Turrell, Vladimir O *Lunar nodal tide effects on variability of sea level, temperature, and salinity in the Faroe-Shetland Channel and the Barents Sea*, **Deep-Sea Research**, **I**, **55**, **10**, 1201-1217, 2008. <https://doi.org/10.1016/j.dsr.2008.06.003>
- <https://www.climateclock.no/2019/11/01/itaque-mihi-non-satis-videmini/> (Yndestad's site on 18.6 yr)
- <https://astroclimatelink.wordpress.com/> (Wilson I.R.G. site; last update: October 26, 2018)

	00 readme.html	Table, (pdf)			
#	Variable	Where	Support site	CM post	Note
1	Rain Fortaleza	Brazil	CM57	here	18.7 yr; 18.0 yr Lomb AJO, Mem JAA
2	Rain	Argentina	CM146	here	18.7 yr; 18.1 half-series
3	Rain	S.Australia	CM72	here	19.3 yr
4	Rain England	(UK)	CM144	here	18-20 yr in all series (30) but NRFA's Ed1
5	Rain Po River	Italy	CM147	here	18.6
6	Rain, R10mm Index, ECAD	Europe, Middle East	CM148£	here	18.6
7	Rain Sahel	Africa	CM115	here	17.9 yr
8	Cloud Cover ALPIN	Alps-wide, EU HISTALP	CM9\$	here	17.8 yr OLD 17.9 yr NEW
9	Cloud Cover LOW	Alps-wide, EU HISTALP	CM9\$	here	19.2 yr OLD 19.2 yr NEW
10	Global Cloud Cover	worldwide Pokrovsky 2019	DM54	here	18.6 yr Wavelet not in Lomb Spect.
11	Level, Nile	Egypt	CM92	here	18.3 yr Obs; 18.8 yr Diff.
12	Level, Stockholm 1774	Sweden	CM92	here	19 yr both Obs & Diff.
13	Level, Stockholm PSMSL	Sweden	CM92	here	18.2 yr Obs.; 18.5 Deriv, both weak
14	Level, Suve	Fiji Islands	CM88	here	16.6-18.5 yr, unsure
15	Level, Aberdeen Scotland	(UK)	CM89	here	18.6 yr
16	Polar Motion	Canada	CM89	here	18.2 yr

17	Salinity Faroe-Shetland Channel	(UK)	CM89	here	18.2 yr
18	Salinity Kola Section	Russia	CM89	here	18.3 yr, unsure & weak
19	TPW-Total Precipitable Water	worldwide	CM92	here	18 yr both Obs & Diff
20	CEI, Climate Extremes Index	USA, West	CM128	here	18.6 yr
21	Dendrology	Russia, russ243	CM92	here	18.4 yr both Obs & Diff
22	Dendrology	New Zealand, newz081mm	CM33	here	18.2 yr, strong
23	Various Stuff Fishery & Indices	Bering Sea*	CM74	here	Some variable only. 2013 data
24	Tide Gauges	worldwide, 63 stations	CM150	here	~50% of datasets
25	Weekly CO2 MaunaLoa	Hawaii, USA	CM153	here	18.8 yr
26	Barents Sea Ice Edge Pos.	N. Europe	CM161	here	18.6 yr, not strong
27	Bonifati, Ave. Mean Temp. 1961-2015	S. Italy	CM56	here	18.1 yr
28	Moldava Floods at Prague 1500-2000	Czech Republic	CM175	here	19 yr
29	Sea Ice Volume (SIV) 3-period models	Pan-Arctic Area	CM176	here	18-18.4-18.8
30	Alpine summer Anom. 1000 yr	Alps	CM210	here	18.4
31				here	
32				here	
		Unpublished			
1	GHD,Beune Grape harvest date	France	GRAPE	--	18.8 yr
2	GHD Swiss Plateau	Switzerland	GRAPE	--	18.5 yr, weak
3	Rain, Bayern	Germany	DM43	--	18.6 yr, Recon.
4	Dendrology Wulan	China	DM48	--	18.6 yr, chin061
5	Dendrology, PDSI	Morocco	DM48	--	17.9 yr
6	Various Stuff Fishery & Indices	Bering Sea	CMAC BERING*	--	15 vars only. 2016 data
7	Excess of LOD Length Of Day	worldwile	ICE	--	18.6 yr, weak
8	Annual & monthly MEI Index	Equatorial Pacific	ICE	--	19.5 yr
9	PDO Index	Pacific Ocean	ICE	--	19.3 yr
10	PDO Index	Pacific Ocean	BERING	--	19 yr (green band)
11	Rain, NE	Australia	here	--	18.5 yr

	Queensland				
12	Sydney, Sea Level PM,PM2	Australia	here	--	19.6 yr
13	Rain Anomaly Victoria	S.Australia	here	--	19.5, 19, 19.8 yr Anom., pos., neg.
14				--	
15				--	

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period 18.6 yr: PDO (18.7), PNA (18.9), SAI (18.6), SI (18.6), PDO WIN (19.3), NPI (19.5)
 Period 18 yr: ENSO (17.9), EPI (17.9), IRI (18), WPI DJF (17.6), WPI MAM (17.9)

§ CM9 has a very long list, so the relevant plots here have been outlined in **pink**

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18 stations out of 27 (67%) show a winter 18-20 yr peak
 17 stations out of 27 (63%) show a summer 18-20 yr peak
 24 stations out of 27 (89%) show a summer OR a winter 18-20 yr peak
 10 stations out of 27 (37%) show a summer AND a winter 18-20 yr peak

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