Cycles

Period (y)	Nature	Description	;	Comments	Source
			;		
			;		
?4?		ENSO-like mode	; China	novel multi-timescale analysis method know	Zhen-Shan, L. and Xian, S. 2007. Multi-scale analysis
6 to 8		?supra-ENSO?	; China		Zhen-Shan, L. and Xian, S. 2007. Multi-scale analysis
			;		
11	solar	Schwabe half cycle of sunspots and magnetic po	;	sunspot cycle = half solar cycle	Douglas V. Hoyt, Kenneth H. Schatten ""The role of the
10 & 12	solar				Charvatova or someone else?
			;		
20	solar		;	full solar cycle	Fairbridge, Shirley 1987 - 19, 179, 900 yr cycles - Prolo
19	axis	nutation of Earth's axis (slight tilting			http://en.wikipedia.org/wiki/Earth
19	lunar	?not sure of period	;		??remember - Hoyte & Schatten probably
20		ENSO-like mode	; China		Zhen-Shan, L. and Xian, S. 2007. Multi-scale analysis
22	solar	Hale full cycle of sunspots and magnetic pole do	;		Douglas V. Hoyt, Kenneth H. Schatten ""The role of the
40		power spectrum	;		Rogers, Richards 2005 - Long-term Variability in the L
60		?? don't know a description	; China		Zhen-Shan, L. and Xian, S. 2007. Multi-scale analysis
trend		just a longer-term base trend	; China		Zhen-Shan, L. and Xian, S. 2007. Multi-scale analysis
			;		
87		power spectrum	;		Rogers, Richards 2005 - Long-term Variability in the L
90		Gleisberg cycle	;		Gerard J. M. Versteegh "Solar Forcing of Climate. 2: E
75-90		Gleissberg			Tim Patterson, presenation at Friends Of Science lunch
			;		
179	solar	solar inertial motion wrt barycenter of solar syst	;		Fairbridge, Shirley 1987 - 19, 179, 900 yr cycles - Prolo
188		power spectrum	;		Rogers, Richards 2005 - Long-term Variability in the L
~200		Suess	;		Gerard J. M. Versteegh "Solar Forcing of Climate. 2: E
208		Suess	;		D. J. Thomson 1990 "Time Series Analysis of Holocene
200-500		Suess	;		Tim Patterson, presenation at Friends Of Science lunch
400		Earth orbital plane inclination		solves Stage1 & stage 11 problem	Richard A. Muller, Gordon J. MacDonald "Origin of th
			;		
900	planets	"great inequality" of the motion of Jupiter and S	;		Fairbridge, Shirley 1987 - 19, 179, 900 yr cycles - Prolo
			;		
~1,250	1440	???German group - combo of ~80 & 210 yr cycl	;		German group
1,500		Bond	;		Gerard J. M. Versteegh "Solar Forcing of Climate. 2: E

1,650	continent-wide synchronous vegetation changes	;	N.America		Viau et al. (2002) CO2 Science - Medieval Warm Peri
1100-1500	Bond				Tim Patterson, presenation at Friends Of Science lunch
		;			
2000-2400	?cycle name?				I. Charvatova 1988 "The relations between solar motion
60, 90, 120, 150-200, 850-950, 1000-1200, 2000-2400			solar system barycenter		I. Charvatova 1988 "The relations between solar motion
23,000	Milankovich - axis precession	;			Huybers & Curry 2006 - Links between annual, Milank
22,000	Milankovich - axis precession (19, 22, 24 ky)	;			http://en.wikipedia.org/wiki/Milankovitch_cycles
		;			
41,000	Milankovich - axis tilt (obliquity)	;			Huybers & Curry 2006 - Links between annual, Milank
		;			
~70,000	Milankovic - inclination of Earth's orbit relative	;	Milankovic didn't study this		Wikipedia 2007 - Milankovitch cycles.htm http://en.wi
		;			
95,000	Milankovic - orbital eccentricity (95, 125, 400 k	;	100,000 year glacial cycles		http://en.wikipedia.org/wiki/Milankovitch_cycles
100,000	Milankovich - orbital	;			Huybers & Curry 2006 - Links between annual, Milank
125,000	Milankovic - orbital eccentricity (95, 125, 400 k	;			http://en.wikipedia.org/wiki/Milankovitch_cycles
~100,000	Veizer etc - glactic rays!!	;			Wikipedia 2007 - Milankovitch cycles.htm http://en.wi
~100,000	Milankovic - inclination of Earth's orbit relative	;	Milankovic didn't study this		
& 125,000	solar bimodal - not one sharp peak	;			Richard A. Muller, Gordon J. MacDonald "Origin of th
100,000	Climate spectral peak (sharp)	;			Richard A. Muller, Gordon J. MacDonald "Origin of th
~400,000	???	;			Huybers & Curry 2006 - Links between annual, Milank
413,000	Milankovic - orbital eccentricity (95, 125, 400 k	;			Wikipedia 2007 - Milankovitch cycles.htm http://en.wi
400,000	eccentricity - major signal	;			Richard A. Muller, Gordon J. MacDonald "Origin of th
		;			
		;			

END of list   ;