

## PROGRAMME GROUP SCHEDULE

### NP – NONLINEAR PROCESSES IN GEOSCIENCES

**O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)**

**TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00**

Session	Title	TB	MO	TU	WE	TH	FR
NP1.01/ US9	Frontiers in Nonlinear Processes in Geosciences (co-organized by US) (including Lewis Fry Richardson Medal Lecture)	1					
		2					
		3					
		4					
		5				O (4 (H))	
NP2.01	ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS)	1					
		2					
		3	O (3)	P (XY)			
		4	O (3)				
		5					
NP2.02/ CR180	Nonlinear cryospheric dynamics (co-organized by NP and CR)	1					
		2					
		3					
		4			P (XY)		O (3)
		5					
NP2.03	Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS)	1					
		2					
		3		P (XY)			
		4					
		5	O (3)				
NP3.01	Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS)	1	O (22)				
		2					
		3					
		4		P (XY)			
		5					
NP3.02	Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)	1	O (22)				
		2	O (22)				
		3					
		4		P (XY)			
		5					
NP3.03	Scaling, subgrid models, downscaling and parameterization	1					
		2					
		3	O (22)				
		4		P (XY)			
		5					
NP3.04	Geophysical extremes: Scaling aspects and modern statistical approaches	1					
		2					
		3					
		4	O (22)	P (XY)			
		5					
NP3.05	Uncertainty, Random Dynamical Systems and Stochastic Modeling in Geophysics	1					
		2					
		3					
		4		P (XY)			
		5	O (22)				
NP3.06	Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM)	1			O (27)		
		2			O (27)		
		3					
		4		P (XY)			
		5					
NP3.07	Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)	1					
		2					
		3			O (27)		
		4		P (XY)	O (27)		
		5					
NP3.08	Scales and scaling in surface and subsurface hydrology (co-listed in HS)	1					
		2					
		3					
		4		P (XY)	O (27)		
		5			O (27)		
NP4.01	Nonlinear time series analysis in the geosciences	1			O (22)		
		2			O (22)		
		3		P (XY)	O (22)		
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
NP4.02	Statistical analysis of paleoclimate time series (co-listed in CL)	1					
		2					
		3		P (XY)			
		4			O (22)		
		5			O (22)		
NP4.03	Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL)	1					
		2					
		3		P (XY)			
		4			O (22)		
		5					
NH8.01/ NP4.04	Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP ) (co-listed in GM)	1	O (16 (L))				
		2	O (16 (L))				
		3	P (XY)				
		4					
		5					
NP4.05/ US8	Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM)	1					
		2					
		3	P (XY)		O (4 (H))		
		4			O (4 (H))		
		5			O (4 (H))		
NP5.01	Quantifying predictability	1			O (22)		
		2			O (22)		
		3					
		4					
		5	P (XY)				
NP5.02	Data assimilation in the presence of nonlinearities (co-listed in AS)	1					
		2			O (22)		
		3			O (22)		
		4			O (22)		
		5	P (XY)				
NP5.03	Model Error: Dynamics, correction and modelling	1					
		2					
		3					
		4					
		5					
NP5.04	Predictability of high impact weather (THORPEX),	1					
		2					
		3					
		4					
		5					
NP5.05	Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH)	1					
		2					
		3			O (24)		
		4					
		5	P (XY)				
NP6.01	Transport, Diffusion and Mixing in Geophysical flows	1		O (22)			
		2					
		3		P (XY)			
		4					
		5					
NP6.02	Nonlinear Waves, Instabilities and Wave-flow interactions (co-listed in OS)	1					
		2		O (22)			
		3		P (XY)			
		4					
		5					
NP6.03	Jets, Wakes and Vortices	1					
		2					
		3		O (22)	P (XY)		
		4					
		5					
NP6.04	Geophysical Laboratory and Field Experiments	1					
		2					
		3		P (XY)			
		4		O (22)			
		5					
NP6.05	Turbulence in the Atmosphere and Ocean (co-listed in AS & OS)	1					
		2					
		3			P (XY)		
		4					
		5		O (22)			
NP6.06	Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS)	1					
		2					
		3		O (22)			
		4				P (XY)	O (22)
		5					O (22)

Session	Title	TB	MO	TU	WE	TH	FR
NP6.07	Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP)	1					
		2					
		3					O (22)
		4				P (XY)	
		5					
NP6.08	Nonlinear geophysical fluid dynamics	1					O (22)
		2					O (22)
		3				P (XY)	
		4					
		5					
BG6.06/ NP6.09	Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS)	1					
		2				O (20 (N))	
		3					
		4			P (BG)		
		5					
GM23	Landscape dynamics: insights from experimental modeling of erosion and sedimentation processes	1					
		2					
		3					
		4					
		5					
HS39	Stochastic-dynamic modelling of precipitation (co-listed in NP & AS)	1					O (31)
		2					
		3					
		4				P (A)	
		5					
CL2	Monthly, seasonal and decadal forecasting (co-listed in NP & AS)	1					
		2			O (14)		
		3			O (14)		
		4					
		5			P (XY)		
OS16	Model development for large- and small-scale processes in the ocean (co-listed NP)	1					
		2				P (XY)	
		3				O (D)	
		4				O (D)	
		5				O (D)	
OS6	IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)	1					
		2					
		3					O (D)
		4					O (D)
		5				P (XY)	
CL20	Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE)	1					
		2					
		3					
		4			O (14)		
		5			P (XY)		
MPRG04	One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP)	1				P (A)	
		2				P (A)	
		3				O (34)	
		4				O (34)	
		5				O (34)	
HS14	Groundwater stochastic hydrology	1			O (31)		
		2					
		3					
		4			P (A)		
		5					
HS32	Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)	1					O (28 (B))
		2					O (28 (B))
		3					P (A)
		4					
		5					
OS4	Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP)	1				O (3)	
		2				O (3)	
		3					
		4					
		5			P (XY)		
HS41	Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)	1					
		2					
		3					
		4					O (31)
		5					P (A)
GMPV20/ BG5.10	Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)	1			P (A)		
		2			P (I)		
		3			O (20 (N))		
		4			O (20 (N))		
		5					

Session	Title	TB	MO	TU	WE	TH	FR
CL40	Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS , OS & NP)	1	O (25)				
		2	O (25)				
		3					
		4					
		5	P (XY)				
CL21	Generality of Climate Models and their Components (co-listed in AS & NP)	1					
		2					
		3		O (14)			
		4					
		5		P (XY)			