

## EGU 2010 – Geodynamics (GD)

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

**TB: 1: 08:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00 / 6: 19:00–20:00**

Division Business Meeting: Tu, 12:15–13:15, Room 30

Session	Title	TB	Mo	Tu	We	Th	Fr
ML11	Augustus Love Medal Lecture by Philip England	1					
		2					
		3					
		4					
		5					
		6	O (31)				
<b>GD1 – General Sessions</b>							
GD1.1	Open session on Geodynamics	1					
		2					P (A1)
		3					O (29)
		4					
		5					
GD1.2/TS9.3	Recent advances in computational geodynamics: from mantle to surface processes	1					
		2					
		3		O (31)			
		4					
		5		P (XY403)			
GD1.3/BG8.1/GMPV58/MPRG24/SSP1.8	Early Earth: from deep dynamics to surface life	1					
		2					
		3					
		4	O (31)				
		5	P (A1)				
GD1.5/G24/TS1.3	Gravity modelling for understanding of the solid Earth structure and dynamics	1	O (31)				
		2					
		3					
		4					
		5	P (A18)				
GMPV25/GD1.8	New insights into the mineralogy and petrology of the Deep Earth (co-sponsored by EMU)	1		O (25)			
		2		O (25)			
		3					
		4					
		5	P (XL213)				
PS7.0/GD1.10	Experiments, Simulations and Numerical modeling in planetology	1					
		2					O (22)
		3				P (XL249)	
		4				P (XL258)	
		5					
<b>GD2 – Crust and Lithosphere Dynamics</b>							
GD2.1/SSP1.3/TS4.8	Basin Dynamics	1	O (30)				
		2	O (30)				
		3					
		4	P (A38)				
		5					
GD2.2/TS1.5	The strength of the continental lithosphere	1					
		2					
		3	O (31)				
		4	O (31)				
		5	P (A1)				
TS4.1/G22/GD2.4/GM5.2/SM1.4	Coupling topography, surface erosion and tectonics	1					
		2					
		3		O (32)			
		4					
		5	P (A453)				
TS4.3/CL1.1/GD2.5/GM5.5/MPRG8/SSP1.5	Eurasian Climate and Tectonics	1					
		2					
		3					
		4	O (32)				
		5	P (A497)				
TS9.2/GD2.6	The evolution of structures in the crust: insights from analogue and numerical modeling	1					
		2					
		3					
		4		O (32)			
		5	P (A495)				

Session	Title	TB	Mo	Tu	We	Th	Fr
G10/CL1.23/GD2.7/ GMPV45	Glacial Isostatic Adjustment: Observations and Modeling for Earth Rheology, Dynamics, and Environmental Change	1 2 3 4 5				O (7) P (XY517)	
SM6.2/GD2.8/TS1.6	Multidisciplinary Constraints on the Lithospheric Structure, Evolution, and Mantle Processes	1 2 3 4 5			O (27) O (27)	P (XL311)	
SM3.2/GD2.9/TS1.7	The 100th anniversary of the discovery of the Mohorovicic Discontinuity: Its geophysical and petrological characteristics	1 2 3 4 5				P (XL283)	
TS8.5/G19/GD2.10/ GMPV43/NH4.6/SM6.6	Crustal faulting and deformation processes observed by interferometric synthetic aperture radar (InSAR)	1 2 3 4 5			O (32) O (32)	P (A510)	
TS8.1/G16/GD2.11/ GM1.2/GMPV46/HS13.1/ MPRG18/NH4.5/SM7.1	One year after the Abruzzo 2009 earthquake	1 2 3 4 5		O (30) O (30)		P (A454)	
GMPV21/GD2.12	Granitoid Magmatism and Geodynamics	1 2 3 4 5	O (25) O (25) P (XL96)				
GMPV13/GD2.13/ SSP4.8	Large Igneous Provinces and Extinctions	1 2 3 4 5				P (XL133) O (20) O (20)	
GMPV19/GD2.14	Interplay of Magmatism, Metamorphism, and Geodynamics: A symposium in memory of Leonid L. Perchuk	1 2 3 4 5	O (25) O (25)	P (XL170)			
SM2.2/GD2.15/HS13.9/ NH4.13/TS2.6	Fault zone processes from (integrated) geophysical imaging	1 2 3 4 5			O (27) P (XL260)		
GMPV23/GD2.16	Nature and evolution of the lithospheric mantle - inferences on magma genesis	1 2 3 4 5		O (25)	P (XL169)		
SM1.0/G25/GD2.17/ GM1.5/GMPV37/NH4.0/ NH5.3/SSP1.9/TS8.4	Large Magnitude Earthquakes and Tsunami Activity in 2010: Views on The Haiti and Chile Events	1 2 3 4 5	O (D) O (D)				
<b>GD3 – Plate Tectonics</b>							
GD3.1/TS10.2	From the geologic record to mantle flow: linking deep and shallow Earth processes	1 2 3 4 5		O (31) P (XY423)			
TS10.1/GD3.3	Unresolved problems in plate tectonics: kinematic reconstructions, plate driving forces, and plate boundary interactions	1 2 3 4 5				P (A498) O (30)	
SM1.2/G21/GD3.4/ TS10.4	Observing the European plate: Sensor networks and data infrastructures	1 2 3 4 5		O (27) P (XL266)			
SM3.1/GD3.5	The Mediterranean: A complex tectonic boundary	1 2 3 4 5				P (XL272)	

Session	Title	TB	Mo	Tu	We	Th	Fr
<b>GD4 – Passive and Divergent Margins</b>							
GD4.1/GMPV52	Two-phase dynamics of mid-ocean ridges and other systems: theory and observation	1 2 3 4 5	O (31) P (A77)				
GD4.2/TS5.5	Processes along passive margins and Links with Onshore Uplift	1 2 3 4 5	O (31) O (31) P (XY438)				
TS5.1/GD4.5/GMPV41	Continental rifting: mechanisms of deformation, sedimentation, and magmatism	1 2 3 4 5	O (30) O (30) P (A397)				
<b>GD5 – Convergent Margins and Subduction</b>							
GD5.1/GMPV18/TS6.9	Subduction zone dynamics: A slab's journey in the upper and lower mantle	1 2 3 4 5	P (A1)	O (31) O (31)			
GD5.2/G23/NH4.12/ SM3.5/TS6.10	Subduction zone dynamics: seismogenic zone and forearc deformation	1 2 3 4 5	O (31) O (31)	P (A21)	O (31) O (31)		
GD5.3/TS6.11	Dynamic aspects of mountain building and land surface stability: Linking field-based studies to crustal-scale models	1 2 3 4 5	O (31) O (31) P (A18)				
TS6.1/G18/GD5.4	The Alpine-Himalayan orogeny: from the Mediterranean to SE Asia	1 2 3 4 5	O (30) O (30) O (30) O (30)	P (A413)	O (30) O (30)		
TS6.8/GD5.6/NH4.14/ SM3.6	Caribbean and South American subduction zones: subduction processes and resulting tectonics, seismogenesis and fore-arc evolution	1 2 3 4 5	O (32) O (32)	P (A483)	O (32) O (32)		
GMPV16/GD5.9	Subduction zone devolatilization: petrology, fluid composition and flow, and tectonic implications	1 2 3 4 5	O (25) O (25) P (XL192)				
TS6.5/GD5.10/GMPV55	Ophiolites, blueschists and mélanges in convergent margin tectonics	1 2 3 4 5	O (32) O (32) P (A510)				
<b>GD6 – Mantle Dynamics</b>							
GD6.5/GMPV47/SM6.11	The mantle from surface to core: integrating seismology, mineral physics, geodynamics and petrology	1 2 3 4 5	O (31) O (31)	P (A14)	O (31)		
GD6.6/GMPV53/ MPRG20/PS9.2/SM6.12	The deep mantle, plumes, and chemical heterogeneity: structure, dynamics, and evolution	1 2 3 4 5	O (31) O (31)	P (A30)	O (31)		
SM1.7/GD6.7/TS1.4	The deep Earth: Looking down into the Mantle and core.	1 2 3 4 5	O (27) P (XL276)				

Session	Title	TB	Mo	Tu	We	Th	Fr
<b>GD7 – Core Dynamics</b>							
GD7.1/MPRG19/PS9.4/ SM6.13	Constraints on Earth's core dynamics from observation, experiments and numerical modeling	1					
		2		O (31)			
		3					
		4					
		5	P (A98)				
MPRG17/GD7.2/ GMPV34/PS9.3	Diversity in planetary magnetism and dynamos	1					
		2					
		3	O (42)				
		4					
		5	P (A404)				
<b>GD8 – Co-Listed Sessions</b>							
GMPV24	Evolution of the subcontinental lithospheric mantle: a petrological and geochemical perspective	1			O (25)		
		2		O (25)			
		3					
		4					
		5	P (XL188)				
SSP1.4	Understanding mixed siliciclastic-volcaniclastic depositional systems and their relationships with geodynamics (co-sponsored by IAVCEI & IAS)	1					
		2					
		3					
		4		O (41)			
		5			P (Z135)		