Institutul de Geodinamică
"Sabba S.Ştefănescu"
al Academiei Române

Raport de autoevaluare pentru anul 2013

1. Date de identificare institut/centru

1.1. Denumire: ***Institutul de Geodinamică "Sabba S.Ştefănescu" al Academiei Române***
1.2. Statut juridic: personalitate juridică
1.3. Act de înfiinţare: HG 364/03.04.1990
1.4. Număr de înregistrare în Registrul Potenţialilor Contractori: 346
1.5. Director general/Director: Dr.Crişan Demetrescu, membru corespondent al Academiei Române
1.6. Adresă: Str. Jean Louis Calderon nr.19-21, sector 2, Bucureşti, cod poştal 020032
1.7. Telefon, fax, pagină *web*, *e-mail*: 317 21 26, 317 21 27, fax: 317 21 20, pagina web: www.geodin.ro, e-mail: inst_geodin@geodin.ro, crisan@geodin.ro

2. Domeniu de specialitate

2.1. Conform clasificării UNESCO: 2504, 2506, 2507, 2509, 2503, 2599
2.2. Conform clasificării CAEN: 7219

3. Stare institut/centru

3.1. Misiunea institutului/centrului, direcţiile de cercetare, dezvoltare, inovare. Rezultate de excelenţă în îndeplinirea misiunii (maximum 2000 de caractere):

Cercetări fundamentale impuse de rezolvarea Programului prioritar al Academiei Române: **"Cercetări geofizice complexe în zone geodinamic active, cu privire specială asupra zonei seismogene Vrancea"** şi, în mod particular, asupra:

- studiului variaţiilor spaţio-temporale ale unor parametri legaţi cauzal de cumularea tensiunilor responsabile de producerea cutremurelor de pământ;
- studiilor de hazard natural (tectonic, seismic, alunecări de teren etc);
- monitorizării variaţiilor spaţio-temporale ale câmpurilor gravific, geomagnetic, electromagnetic, geoelectric şi ale deformărilor crustei terestre;
- modelării structurii şi evoluţiei termo-mecanice a litosferei;
- analizei neliniare a sistemelor geodinamice;
- studiului proceselor endogene în conexiune cu procesele geodinamice;
- studiului câmpului geomagnetic în relaţie cu procese fizice din heliosferă;
- studiului geofizic complex în zone devenite geodinamic active datorită activităţii antropice

3.2. Modul de valorificare a rezultatelor de cercetare, dezvoltare, inovare şi gradul de recunoaştere a acestora (maximum 1000 de caractere)[1]:

Rezultatele de cercetare, dezvoltare, inovare au fost valorificate prin:

- articole publicate în reviste de specialitate, recunoaşterea conţinutului ştiinţific fiind reliefată prin numeroasele citări în reviste cotate ISI
- participarea la manifestări ştiinţifice internaţionale de prestigiu
- participarea la PNCDI, ce a adus Institutului fonduri folosite exclusiv pentru dezvoltarea bazei tehnico-materiale
- participarea la programe internaţionale,
- instituţie acreditată prin decizia ANCS nr. 9634/14.04.2008 (anexa nr.2)

- indice Hirsch (Acad.A.Săndulescu – 27, I.Seghedi – 15, A.Szakacs – 13, V.C.Manea – 11, C. Demetrescu – 9, M.Manea – 9)

3.3. Situaţia financiară - datorii la bugetul de stat: Nu există datorii la bugetul de stat

3.4. Numărul personalului de cercetare (CS - CS I):

	2013
CS I	9
CS II	3
CS III	9
CS	12

3.5. Numărul total al personalului:

	2013
Nr. posturi aprobate	82

4. Criterii de performanţă in cercetarea stiintifica (toate criteriile analizează numai perioada de evaluare) (40%)

Nr. crt.	**Criteriu**	**n**	**Punctaj unitar**	**Punctaj acordat**
1.	Participarea la un program fundamental sau prioritar al Academiei Române şi realizarea obiectivelor sale.			
	Programul prioritar al Academiei Române **"Cercetări geofizice complexe în zone geodinamic active, cu privire specială asupra zonei seismogene Vrancea"**, conducător: Dorel Zugrăvescu, membru corespondent al Academiei Române	1	25	**25**
2.	Un tratat apărut într-o editură consacrată din străinătate[2]		$25\times(N_{ic}/N_a)$	0
3.	O carte apărută într-o editură consacrată din străinătate[2]		$20\times(N_{ic}/N_a)$	0
4.	O monografie apărută într-o editură consacrată din străinătate[2]		$15\times(N_{ic}/N_a)$	0
5.	O carte editată într-o editură consacrată din străinătate[2]		$10\times(N_{ic}/N_a)$	0
6.	Un tratat editat într-o editură consacrată din străinătate[2] Lithos-Elsevier ***"Magmatic response to the post-accretionary orogenesis within Alpine–Himalayan belt"***, Eds: Seghedi I., Prelevic D.	1	$13\times(N_{ic}/N_a)$	**6,5**
7.	O monografie editată într-o editură consacrată din străinătate[2]		$8\times(N_{ic}/N_a)$	0
8.	Un tratat apărut în Editura Academiei Române		$13\times(N_{ic}/N_a)$	0
9.	O carte apărută în Editura Academiei Române		$10\times(N_{ic}/N_a)$	0
10.	O monografie apărută în Editura Academiei Române		$8\times(N_{ic}/N_a)$	0
11.	Un tratat editat în Editura Academiei Române		$7\times(N_{ic}/N_a)$	0
12.	O carte editată în Editura Academiei Române		$5\times(N_{ic}/N_a)$	0
13.	O monografie editată în Editura Academiei Române		$3\times(N_{ic}/N_a)$	0

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
14.	Un articol publicat într-o revistă cotată de *Web of Science* (Thomson Reuters) **Vezi Anexa 1**	16	$(1 + FI)\times(N_{ic}/N_a)^4$	**27,116**
15.	O lucrare prezentată la o manifestare ştiinţifică internaţională, publicată integral într-o revistă cotată de *Web of Science* (Thomson Reuters) **Vezi Anexa 2**	1	$(1 + FI)\times(N_{ic}/N_a)^4$	**0,464**
16.	O lucrare prezentată la o manifestare ştiinţifică internaţională, publicată integral într-un volum editat într-o editură consacrată din străinătate, inclusiv electronic (*Conference Proceedings Citation Index- Science*, *Web of Science*, Thomson Reuters)[2] **Vezi Anexa 3**	6	$2\times(N_{ic}/N_a)$	**6,86**
17.	Un capitol într-un tratat, carte sau monografie editate într-o editură consacrată din străinătate[2] **Vezi Anexa 4**	2	$13\times(N_{ic}/N_a)\times(N_p/N_{tp})$	**0,537**
18.	Un capitol într-un tratat, carte sau monografie editate în Editura Academiei Române		$7\times(N_{ic}/N_a)\times(N_p/N_{tp})$	**0**
19.	Număr de citări conform *Web of Science* (Thomson Reuters) **Vezi Anexa 5**	205	0,5	**102,5**
20.	Factor de impact cumulat conform *Web of Science* (Thomson Reuters)[3]	-	$FI\times(N_{ic}/N_a)$	**16,904**
21.	O carte apărută într-o editură consacrată din ţară[7]		$7\times(N_{ic}/N_a)$	**0**
22.	O carte editată într-o editură consacrată din ţară[7]		$3\times(N_{ic}/N_a)$	**0**
23.	Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internaţională de date (BDI) **Vezi Anexa 6**	7	$1\times(N_{ic}/N_a)$	**4,602**
24.	O conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică internaţională **Vezi Anexa 7**	4	10	**40**
25.	O conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică naţională		5	**0**
26.	O comunicare orală prezentată la o manifestare ştiinţifică internaţională **Vezi Anexa 8**	44	$5\times(N_{ic}/N_a)$	**181,15**
27.	O comunicare orală prezentată la o manifestare ştiinţifică naţională **Vezi Anexa 9**	8	$2\times(N_{ic}/N_a)$	**11,9**
Punctaj total criterii de performanţă in cercetarea stiintifica				**423,533**

[2] Se vor lua în considerare următoarele edituri străine: Academic Press, Appleton & Lange, Birkhauser, Blackwell, Cambridge University Press, CRC Press, Elsevier, Garland Publishing, Kluwer Academic Publishers, McGraw-Hill, Mosby, Nova Science Publishers, Oxford University Press, QMP, Springer Verlag, Thieme, Willey-Liss, Williams and Wilkins, World Scientific Publishing, alte edituri straine de aceeasi anvergura.

[3] Pentru fiecare articol se va lua în calcul factorul de impact (FI) al revistei împărţit la numărul total de autori (N_a) şi înmulţit cu numărul de autori din institutul/centrul evaluat (N_{ic}). Factorul de impact este publicat anual de *Web of Knowledge*, *Journal Citation Report* (Thomson Reuters), iar pentru calcul se va utiliza valoarea corespunzătoare anului apariţiei articolului.

[4] Pentru revistele din domeniile: Botanică, Zoologie, Ecologie, Agronomie etc., al căror FI este $\leq 2,0$ punctajul total se înmulţeşte cu 1,5.

[5] Punctajul total va fi suma punctajelor unitare rezultate prin calcul.

[6] Pentru domeniul Ştiinţe Agricole produsele sunt soiuri noi de plante, hibrizi etc., iar punctajul unitar va fi 30.

n = număr programe, tratate, cărţi, monografii, lucrări, citări etc.; FI = factor de impact; N_{ic} = număr autori din institut/centru; N_a = număr total de autori; N_p = număr pagini capitol; N_{tp} = număr total de pagini volum.

[7] Se vor lua în considerare cărţile ştiinţifice de autor ce apar în evidenţa Bibliotecii Naţionale.

n = număr programe, tratate, cărţi, monografii, lucrări, citări etc.; FI = factor de impact; N_{ic} = număr autori din institut/centru; N_a = număr total de autori; N_p = număr pagini capitol; N_{tp} = număr total de pagini volum.

5. Capacitatea de a atrage fonduri de cercetare (20%)

Nr. crt.	Criteriu		n	Punctaj unitar	Punctaj acordat
1.	Un grant câştigat de către institut/centru de la organizaţii internaţionale	5000 - 10000 EUR		2	
		10001 - 50000 EUR		4	
		50001 - 200000 EUR		6	
		200001 - 1000000 EUR		8	
		peste 1000000 EUR		10	
2.	Un grant câştigat de către institut/centru de la organisme naţionale	sub 10000 RON		1	
		10001 - 100000 RON		2	
		100001 - 500000 RON		3	
		peste 500000 RON		4	
3.	Un contract extrabugetar obţinut de către institut/centru de la organizaţii internaţionale sau naţionale **Vezi Anexa 10**	sub 5000 RON		0,5	**15**
		5001 - 10000 RON		1	
		10001 - 100000 RON		2	
		peste 100000 RON	5	3	
4.	O manifestare ştiinţifică (congres, conferinţă, simpozion) sau şcoală de vară internaţională organizată de institut Workshop-ul **NEMO** – Numerical Modelling Using High Performance Computing Infrastructures, Bucharest, Romania, 10-11 June 2013		1	10	**10**
5.	O manifestare ştiinţifică (congres, conferinţă, simpozion) sau şcoală de vară naţională organizată de institut			5	0
Punctaj total atragere fonduri de cercetare					**25**

6. Capacitatea de a dezvolta servicii, tehnologii, produse (10%)

Nr. crt.	Criteriu		n	Punctaj unitar	Punctaj acordat
1.	Un brevet acordat	la nivel internaţional		10	
		la nivel naţional		5	
2.	Un brevet aplicat	la nivel internaţional		20	
		la nivel naţional		10	
3.	Un brevet citat în *Web of Science* (Thomson Reuters)			5	
4.	Produse şi tehnologii rezultate din activităţi de cercetare bazate pe omologări sau inovaţii proprii (produs vândut, sume încasate)[6]			20	
5	Un laborator de cercetare-dezvoltare acreditat			20	
6	Studii de impact si servicii comandate de un beneficiar **Vezi Anexa 11**		5	5	**25**
	Punctaj total dezvoltare servicii s.a.				**25**

7. Capacitatea de a pregati superior tineri cercetatori (doctorat, post-doctorat) (10%)

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Institutul/centrul are dreptul de a conduce doctorate	1	20	**20**
2.	Un conducător de doctorat care activează în institut/centru - Dr.ing.Dorel Zugrăvescu, membru corespondent al Academiei Române - Dr.Crişan Demetrescu, membru corespondent al Academiei Române	2	20	**40**
3.	Un doctorand (**Vezi Anexa 12**)	16	10	**160**
4.	Un post-doctorand Dr.Marina Manea	1	10	**10**
5.	Un cercetator angajat in institut/centru care a obtinut titlul de doctor in perioada de evaluare	3	10	**30**
Punctaj total pregatire tineri cercetatori				**260**

8. Prestigiu ştiinţific (toată perioada de activitate) (20%)

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Un membru în colectivul de redacţie al unei reviste naţionale/internaţionale (cotată de *Web of Science*, Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaţionale consacrate **Vezi Anexa 13**	13	20	**260**
2.	Un membru în conducerea unei organizaţii internaţionale de specialitate		20	
3.	Un membru al Academiei Române Acad.A.Săndulescu, Dr.ing. Dorel Zugrăvescu, membru corespondent al Academiei Române, Dr. Crişan Demetrescu, membru corespondent al Academiei Române	3	50	**150**
4.	Un cercetător cu un indice Hirsch peste 8 Acad.A.Săndulescu – 27, Dr.I.Seghedi – 15, Dr.A.Szakacs – 13, Dr.V.C.Manea – 11, Dr.Crişan Demetrescu – 9, Dr. M.Manea – 9	6	20	**120**
5.	Un membru de onoare (*fellow*, *senior*) al unei societăţi ştiinţifice naţionale/internaţionale		20	
6.	Un premiu al Academiei Române – Dr.Marilena Mierlă **Vezi Anexa 14**	1	20	**20**
7.	Un premiu (distincţie) al unei societăţi ştiinţifice naţionale obţinut printr-un proces de selecţie		10	0
	Un premiu (distincţie) al unei societăţi ştiinţifice internaţionale obţinut printr-un proces de selecţie Drd.Ştefan Cristiana **Vezi Anexa 14**	1	40	**40**
Punctaj total prestigiu ştiinţific				**590**

Punctaj total criterii performanta stiintifica, atragere de fonduri, performanta dezvoltare, pregatire tineri şi prestigiu ştiinţific	**1323,533**

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Anexa 1

Un articol publicat într-o revistă cotată de Web of Science (Thomson Reuters) în 2013

Manea, V.C., Manea, M., Ferrari, L., 2013. Review Article: A Geodynamical Perspective on the Subduction of Cocos and Rivera plates beneath Mexico and Central America. *Tectonophysics*, http://dx.doi.org/10.1016/j.tecto.2012.12.039, FI = 2.684

Nicolae I., **Seghedi I**., Bobos I., M. do Rosário Azevedo, Ribeiro S., **Tatu M**., 2013. Permian volcanic rocks from the Apuseni Mountains (Romania): Geochemistry and tectonic constraints. *Chemie der Erde*, http://dx.doi.org/10.1016/j.chemer.2013.03.002, FI=1,45.

Panaiotu C.G., Jicha B.R., Singer B.S., Tugui A., **Seghedi I**., Panaiotu A.G., Necula C., 2013. $^{40}Ar/^{39}Ar$ chronology and paleomagnetism of Quaternary basaltic lavas from the Persani Mountains (East Carpathians). *Physics of the Earth and Planetary Interiors* 221, 1–14, FI=2,383.

Szakács A., **Seghedi I**., 2013. The relevance of volcanic hazard in Romania: is there any? *Environmental Engineering and Management Journal* 12, 1, 125-135, FI=1,117.

Seghedi I., Ersoy Y. E., Helvacı C., 2013. Miocene–Quaternary volcanism and geodynamic evolution in the Pannonian Basin and the Menderes Massif: A comparative study. *Lithos*, http://dx.doi.org/10.1016/j.lithos.2013.08.017, FI=3,779.

Harangi Sz., Sági T., **Seghedi I**., Ntaflos Th., 2013. Origin of basaltic magmas of Perşani volcanic field, Romania: A combined whole rock and mineral scale investigation. *Lithos*, http://dx.doi.org/10.1016/j.lithos.2013.08.025, FI=3,779.

Prelević D., **Seghedi I.**, 2013. Magmatic response to the post-accretionary orogenesis within Alpine – Himalayan belt - Preface. *Lithos*, http://dx.doi.org/10.1016/j.lithos.2013.09.004, FI=3,779.

Dobrica V., Demetrescu C., Stefan C., Toward a better representation of the secular variation. Case study: the European network of geomagnetic observatories, *Earth, Planets, Space*, 65, 767–779, doi:10.5047/eps.2012.12.001, 2013, FI = 2,921.

Oprea C., Mierla M., Beşliu-Ionescu D., Stere O., Mariş Muntean G., A study of solar and interplanetary parameters of CMEs causing major geomagnetic storms during SC 23, *Annales Geophysicae*, 31, 1285-1295, 2013, FI = 1,518.

Feng L., Inhester B., **Mierla M.,** Comparisons of CME Morphological Characteristics Derived from Five 3D Reconstruction Methods, *Solar Physics*, 282, 1, 221-238, 2013, FI = 3,256.

Halain J.-P., Berghmans D., Seaton D.B., Nicula B., De Groof A., **Mierla M**., Mazzoli A., Defise J.-M., Rochus P., The SWAP EUV Imaging Telescope. Part II: In-flight Performance and Calibration, *Solar Physics*, 286, 1, 67-91, 2013, FI = 3,256.

Mierla M., Seaton D. B., Berghmans D., Chifu I., De Groof A., Inhester B., Rodriguez L., Stenborg G., Zhukov A. N., Study of a Prominence Eruption using PROBA2/SWAP and STEREO/EUVI Data, *Solar Physics*, 286, 1, 241-253, 2013, FI = 3,256.

Vaduvescu O., Birlan M., Tudorica A., Popescu M., Colas F., Asher D.J., Sonka A., Suciu O., **Lacatus D., Paraschiv A.**, Badescu T., Tercu O., Dumitriu A., Chirila A., Stecklum B., Licandro J., Nedelcu A., Turcu E., Vachier F., Beauvalet L., et al., 739 observed

NEAs and new2-4 m survey statistics within the EURONEAR network, *Planetary and Space Science*, 85, 299-311, 2013, FI = 2,109

Vaduvescu O., Popescu M., Comsa I., **Paraschiv A., Lacatus D.,** Sonka A., Tudorica A., Birlan M., Suciu O., Char F., Constantinescu M., Badescu T., Badea M., Vidican D., Opriseanu C., Mining the ESO WFI and INT WFC archives for known Near Earth Asteroids. Mega-Precovery software, *Astron. Nachr*., 334, 718–728. doi: 10.1002/asna.201211720, 2013, FI = 1,399

Veres D., Lane C.S., Timár-Gábor A., Hambach U., Constantin D, **Szakács A**., Fülling A, Onac B.P. (2013) The Campanian Ignimbrite/Y5 tephra layer – A regional stratigraphic marker for Isotope Stage 3 deposits in the Lower Danube region, Romania. Quaternary International. 293, 22-33 http://dx.doi.org/10.1016/j.quaint.2012.02.042**.** FI= 1,874

Szakács A. (2013) G. Groppelli and L. Viereck-Goette (eds.): Stratigraphy and geology of volcanic areas. The Geological Society of America Special Paper, 2010, 464 pages, ISBN 978-0-8137-2464-5 (pbk). Book review. Bulletin of Volcanology, 75, 6, 725, DOI 10.1007/s00445-013-0725-2 FI=2,205

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Anexa 2

O lucrare prezentată la o manifestare ştiinţifică internaţională, publicată integral într-o revistă cotată de *Web of Science* (Thomson Reuters)

D. Gallhofer, A. Von Quadt, I. Peytcheva, **I. Seghedi**, C.A. Heinrich. 2013. Subduction-related to post-arc magmatism and Cu-Au-Te metallogeny in the Carpathian orogen, Romania. Goldschmidt 2013. Mineralogical Magazine, 77(5) 1132, FI=1.32.

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Anexa 3

O lucrare prezentată la o manifestare ştiinţifică internaţională, publicată integral într-un volum editat într-o editură consacrată din străinătate, inclusiv electronic (Conference Proceedings Citation Index- Science, Web of Science, Thomson Reuters)

Z. Pécskay, K. Birkenmajer, K. Gméling, **I. Seghedi**, 2013. Geochemistry of Na-alkalic Tertiary volcanics in Lower Silezia, Poland; a geodynamic analysis. Basalt-2013, 68, Abstract & Excursion Guides, Czech Geological Survey Prague & Senkenberg Museum of Natural History Görliz

I. Seghedi, **A. Szakács**, C. G. Panaiotu, Z. Pécskay, **R. G. Popa**. 2013. The Persani Mountains Na-alkalic basaltic volcanic field-revised volcanology. Basalt-2013, 142, Abstract & Excursion Guides, Czech Geological Survey Prague & Senkenberg Museum of Natural History Görliz

A.-V. Bojar, J. Dodd, **I. Seghedi**. 2013. Isotope geochemistry of Late Cretaceous volcanic rocks, Hateg basin, South Carpathians, Romania. Geophysical Research Abstracts Vol. 15, EGU2013-5716-1, 2013 EGU General Assembly 2013.

R.-G. Popa, **I. Seghedi**, 2013. The eruptive history of the small and isolated andesitic Caraci Volcano, Zarand Basin, South Apuseni Mountains, Romania. ©IAVCEI 2013 Scientific Assembly, Kagoshima, Japan, 1A2_3B-08, 748.

R.W. Tarff, S.J. Day, H. Downes**, I. Seghedi**, 2013. Evolution of the Phreatomagmatic Cova de Paul Eruption, Santo Antao, Cape Verde Islands: Links between eruption development and crater growth. AGU Fall meeting.

Stanica D., Stanica D.A., Possible correlations between the pre-seismic anomalous behaviour of the electromagnetic parameters and the extreme seismic events; Case study: M9 Great Tohoku earthquake on March 11, 2011, published in The Smithsonian/NASA Astrophysics Data System, EGU, Geophysical Research, held 7-12 April. 2013 in Viena, id. EGU2013-4770

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Anexa 4

Un capitol într-un tratat, carte sau monografie editate într-o editură consacrată din străinătate
2013

Bojar A.-V., Dodd J., **Seghedi I**.. 2013. Isotope geochemistry (O, H and Sr) of Late Cretaceous volcanic rocks, Hateg Basin, South Carpathians, Romania. In Bojar, A.-V., Melinte-Dobrinescu, M. C. & Smit, J. (eds) *Isotopic Studies in Cretaceous Research*. Geological Society, London, Special Publications, 382, http://dx.doi.org/10.1144/SP382.10 **Punctaj=13×(1/3)×(9/120)= 0,325**

Balan S.F., Ioane D., Cioflan C., Panea I., Apostol B., Malita Z., **Chitea F., Anghelache M. A.** 2013: Scenarios for Local Seismic Effects of Tulcea (Romania) Crustal Earthquakes - Preliminary Approach of the Seismic Risk Characterization for Tulcea Cit; in (Bostenaru Dan, Maria; Armas, Iuliana; Goretti, Agostino Eds) Earthquake Hazard Impact and Urban Planning Hazards, capitolul 5 din partea a II-a, *Earthquake risk assessment*.

http://www.springer.com/earth+sciences+and+geography/natural+hazards/book/978-94-007-7980-8

Punctaj=13×(2/8)×(13/199)= 0,212

Total = 0,325 + 0,212= 0,537

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Anexa 5

Număr de citări conform *Web of Science* (Thomson Reuters) în 2013

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Lucrarea
Demetrescu, C., Dobrică, V., 2008, Signature of Hale and Gleissberg solar cycles in the geomagnetic activity. Journal of Geophysical Research A: Space Physics (2), a fost citată în:

1. Menk, F.W., Waters, C.L., Magnetoseismology: Ground-based remote sensing of Earth's Magnetosphere (Book), 2013.

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Demetrescu, C., Nitoiu, D., Boroneant, C., Marica, A., Lucaschi, B., 2007, Thermal signal propagation in soils in Romania: conductive and non-conductive processes, Climate of the past, (4), 637-64, a fost citată în:

1. Dedecek, P., Rajver, D., Cermak V., Safanda, J., Kresl, M., Six years of ground-air temperature tracking at Malence (Slovenia): Thermal diffusivity from subsurface temperature data, Journal of Geophysics and Engineering, 10 (2), art. no. 025012, 2013

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1. Bocin, A., Stephenson, R., Matenco, L., Mocanu, V., Gravity and magnetic modelling in the Vrancea Zone, south-eastern Carpathians: Redefinition of the edge of the East European Craton beneath the south-eastern Carpathians, Journal of Geodynamics 71, pp. 52-64, 2013

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Demetrescu, C., Andreescu, M., 1994, On the thermal regime of some tectonic units in a continental collision environment in Romania, Tectonophysics (3-4), 265-276, a fost citată în:

1. Szakacs, A., Seghedi, I., The relevance of volcanic hazard in Romania: is there any? Environmental Engineering and Management Journal, 12(1), pp. 125-135, 2013.

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Anexa 6

Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internaţională de date (BDI) în 2013

Niculae, L. 2013, The impact of environmental factors on the evolution of the slopes in the Naruja Basin, *Proceedings al Conferintei Aerul şi Apa: Componente ale Mediului, pag. 407-414, ISSN 2067743X*, www.doaj.org, www.scirus.com

Besutiu L., Orlyuk M., **Zlagnean L**., Roments A., **Atanasiu L**., Makarenko I., 2013. Geomagnetic insights on an active tectonic contact: Peceneaga-Camena Fault (*extended abstract*)*; Proceedings of the 5th International Scientific Conference "Geophysical Technologies of Geological Media Predicting and Monitoring", Lvov, Ukraine, 1-4 October 2013, Gheodinamika, 2(15)/2013, pp.100-102, ISSN 1992-142X*

Besutiu L., 2013. Geophysical insights on the structure and geodynamic evolution of the SE Carpathians and related foreland in the context of the Black Sea opening (*extended abstract*); *Proceedings of the 5th International Scientific Conference "Geophysical Technologies of Geological Media Predicting and Monitoring", Lvov, Ukraine, 1-4 October 2013, Gheodinamika, 2(15)/2013, pp.97-99, ISSN 1992-142X*

Saiz E., Cerrato Y., Cid C., **Dobrica V.**, Hejda P., Nenovski P., Stauning P., Bochnicek J., Danov D., **Demetrescu C.**, Gonzalez W.D., **Maris G.**, Teodosiev D., Valach F., 2013, Geomagnetic response to solar and interplanetary disturbances, *J. Space Weather Space Clim*., 3, A26, doi: 10.1051/swsc/2013048.

Stefan C., Dobrica V., Demetrescu C., 2013, On the evolution of geomagnetic activity in the last 300 years. Implications regarding solar wind dynamic pressure and magnetopause standoff distance, *Sun and Geosphere*, 8(1), 7-10.

Greculeasa R. A., Dobrica V., Demetrescu C., 2013, Sources of Geomagnetic Activity at Mid-Latitudes: Case Study – European Observatories, *Sun and Geosphere*, 8(1), 11-14.

Zuccarello F., Balmaceda L., Cessateur G., Cremades H., Guglielmino S. L., Lilensten J., Dudok de Wit T., Kretzschmar M., Lopez F. M., **Mierla M.,** and 8 coauthors, 2013, Solar activity and its evolution across the corona: recent advances*, Journal of Space Weather and Space Climate*, 3, A18.

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Anexa 7

O conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică internaţională în 2013

Seghedi I., Lexa J.. 2013. Neogene to Quaternary volcanics in the Carpathian-Pannonian region – their geodynamic setting and petrological aspects, 82, in *GEEWE-C2013 "Geological evolution of the Western Carpathians: new ideas in the field of inter-regional correlations. Geological Institute, Slovak Academy of Science*s.

Szakács A. Volcano instability: causes, processes and consequences. *Basalt2013 International Conference*, Gorlitz, April 24-28, 2013

Bănescu M. On the function ¶ (x); *Workshop on Algebraic and Analytic Number Theory and Their Applications, Constanta, Romania, 23-24 May 2013*

Besutiu L. Geophysical insights on the structure and geodynamic evolution of the SE Carpathians and related foreland in the context of the Black Sea opening; *5th International Scientific Conference "Geophysical Technologies of Geological Media Predicting and Monitoring" (plenary session), Lvov, Ukraine, 1-4 October 2013*

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Anexa 8

O comunicare orală prezentată la o manifestare ştiinţifică internaţională în 2013

Niculae, L., 2013. The impact of environmental factors on the evolution of the slopes in the Naruja Basin, *Conferinţa Internaţională „Aerul şi Apa Componente ale Mediului", Cluj Napoca, România, 22-23 March 2013*

Demetrescu C., Dobrica V., Space climate characterization via geomagnetic indices. An attempt of integrating solar, heliospheric, and geomagnetic indices at various time-scales, *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7 – 12 April 2013*

Dobrica V., Demetrescu C., Large-scale lithospheric magnetic anomalies in Europe as revealed by recorded geomagnetic storms at the observatory network, *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7 – 12 April 2013*

Greculeasa R., Dobrica V., Demetrescu C., Auroral electrojet and magnetospheric ring current effects in the disturbance field recorded at European Observatories, *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7 – 12 April 2013*

Stefan C., Demetrescu C., Dobrica V., Long-term external effects in annual means from observatory and main field models, *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7 – 12 April 2013*

Stanica D. Stanica D.A., Possible correlations between the pre-seismic anomalous behaviour of the electromagnetic parameters and the extreme seismic events; Case study: M9 Great Tohoku earthquake on March 11, 2011, *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7 – 12 April 2013*.

Suteanu C., **Dobrica V., Demetrescu C**., A comparative approach to surface air temperature patterns and pattern change, *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7-12 April 2013*

Beşuțiu, L., Zlăgnean, L., Plopeanu, M. An attempt to monitor tectonic forces in the Vrancea active geodynamic zone: The Baspunar experiment; *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7-12 April 2013*

Manea V.C., Taras G., **Manea M**., Zhu G., Leeman W. Subduction of the fracture zones; *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7-12 April 2013*

Manea V. C., Manea M., Ferrari L. A Geodynamical Perspective on the Subduction of Cocos and Rivera plates beneath Mexico and Central America; *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7-12 April 2013*

Manea M., Manea V.C., Capra L., Bonasia R. Volcanic hazard in Mexico: a comprehensive on-line database for risk mitigation; *European Geosciences Union (EGU) General Assembly, Vienna, Austria, 7-12 April 2013*

Cadicheanu N., van Ruymbeke M., Zhu Ping, On the variability of the coupling between some earth tide periodicities and earthquake triggering from three important seismic nest regions on earth, *17th International Symposium on Earth Tides, „Understand the Earth",Warsaw, Poland, 15-19 April, 2013*

Szakács A., Soós I. Locating phreatomagmatic eruptive centers by "inverse ballistics": A new methodological approach applied in the Persani Mts., Romania. *Basalt2013 International Conference*, *Gorlitz, April 24-28, 2013*

Dobrica V., Demetrescu C., Signature of Hale and Geissberg cycles in geomagnetic activity and in climate parameters*, COST Action ES1005, WG2 workshop on the influence of*

interplanetary perturbations on the Earth's atmosphere and climate, Sunny Beach, Bulgaria, 13-16 May 2013

Manea V.C., Manea M., Pomeran M., Besutiu L., Zlagnean L. High Performance Computing: a viable solution to boost research for Earth Sciences; *AGU Meeting of the Americas, Cancun, Mexico, 14-17 May 2013*

Manea V.C., Manea M., Pomeran M., Besutiu L., Zlagnean L. A parallelized particle tracing code for massive 3D mantle flow simulations; *AGU Meeting of the Americas, Cancun, Mexico, 14-17 May 2013*

Dobrica V., Greculeasa R., Demetrescu C., On sources of the disturbance field recorded at European geomagnetic observatories, *The 6th MagNetE Workshop and Meeting of the EPOS WG 9 Magnetic Observations, Prague, Czech Republic, 3–5 June 2013*

Greculeasa R., Dobrica V., Demetrescu C., The Romanian network of repeat stations. Geomagnetic measurements 2011-2012, *The 6th MagNetE Workshop and Meeting of the EPOS WG 9 Magnetic Observations, Prague, Czech Republic, 3-5 June 2013*

Demetrescu C., Stefan C., Dobrica V., Magnetosphere response to solar activity during the Maunder Minimum, *The Fifth Workshop "Solar influences on the magnetosphere, ionosphere and atmosphere", Nessebar, Bulgaria, 3-7 June 2013*

Stefan C., Dobrica V., Demetrescu C., The magnetopause standoff distance: Short- and long-term variability, *The Fifth Workshop "Solar influences on the magnetosphere, ionosphere and atmosphere", Nessebar, Bulgaria, 3-7 June 2013*

Maris Muntean G., Maris O., **Besliu-Ionescu D., Mierla M**., Long-term variability of the high speed solar wind, *The Fifth Workshop Solar Influences on the Magnetosphere, Ionosphere and Atmosphere, Nesebar, Bulgaria, 3-7 June 2013*

Manea V.C., Manea M., Pomeran M., Besutiu L., Zlagnean L. High Performance Computing and Visualization: a viable solution to boost research for Earth Sciences. *International Workshop NEMO – Numerical Modelling Using High Performance Computing Infrastructures, Bucharest, Romania, 10-11 June 2013*

Manea M., Manea V.C. – Scientific visualization with open source software. *International Workshop NEMO – Numerical Modelling Using High Performance Computing Infrastructures, Bucharest, Romania, 10-11 June 2013*

Pomeran M., Manea V.C., Manea M., Besutiu L., Zlăgnean L. - Code parallelization algorithms**.** *International Workshop NEMO – Numerical Modelling Using High Performance Computing Infrastructures, Bucharest, Romania, 10-11 June 2013*

Zlăgnean L., Besutiu L. - Gravity insights on the deep structure of the Vrancea intermediate-depth seismic zone. *International Workshop NEMO – Numerical Modelling Using High Performance Computing Infrastructures, Bucharest, Romania, 10-11 June 2013*

Besutiu L., Zlăgnean L. - Modelling non-tidal gravity changes within Vrancea active geodynamic zone. *International Workshop NEMO – Numerical Modelling Using High Performance Computing Infrastructures, Bucharest, Romania, 10-11 June 2013*

Manea V.C., Manea M., Pomeran M., Besutiu L., Zlagnean L. – Slab beak-off and mantle flow in the Carpatian region: new insights from 4D numeric models. *International Workshop NEMO – Numerical Modelling Using High Performance Computing Infrastructures, Bucharest, Romania, 10-11 June 2013*

Cadicheanu N., Validation of the statistical parameter of correlation between earth tides and earthquakes, *International Workshop NEMO - Numerical Modelling using high performance computing infrastructures, Bucharest, 10-11 June, 2013.*

Stanica D., Stanica M., The Carpathian conductivity anomaly and its geodynamic implication reflected by 2-D magnetotelluric modeling, *International Workshop NEMO - Numerical Modelling using high performance computing infrastructures, Bucharest, 10-11 June, 2013*

Mierla M, Chifu I., Inhester B., Rodriguez L., Zhukov A., Low polarised emission from the core of coronal mass ejections, *IAUS 300, Nature of prominences and their role in Space Weather, Paris, 10-14 June 2013*

Besliu-Ionescu D., Mierla M., Srivastava N., **Maris Muntean G**., Linking Various Signatures of the February 15, 2011 Solar Flare, *Space Climate 5 – Under the midnight Sun, Oulu, Finlanda, 15-19 June 2013*

Mierla M., Dima G., Moise E., Rodriguez L., Seaton D., 3D reconstruction of a sigmoidal active region, *Sixth Coronal Loops workshop, La Roche, Belgium, 25-27 June 2013*

Demetrescu C., Dobrica V., Similar interdecadal evolution of magnetosphere and ionosphere current systems as seen in geomagnetic indices, PC included, *The XIIth Scientific Assembly IAGA 2013, Merida, Mexico, 26-31 August 2013*

Demetrescu C., Stefan C., Dobrica V., Geoeffective solar activity before geomagnetic observatory era. Insights from global models of the geomagnetic field. *The XIIth Scientific Assembly IAGA 2013, Merida, Mexico, 26-31 August 2013*

Dobrica V., Demetrescu C., On space climate features in geomagnetic field and terrestrial climate**,** *The XIIth Scientific Assembly IAGA 2013, Merida, Mexico, 26-31 August 2013*

Dobrica C., Demetrescu C., Greculeasa R., Stefan C., The geomagnetic disturbance field as a means to infer information on underground electrical structure. Case study – Europe, *The XIIth Scientific Assembly IAGA 2013, Merida, Mexico, 26-31 August 2013*

Stanica D., Stanica D.A., EM imaging along the intra-plate collision suture zone and its geodynamic and seismic implication, *The XIIth Scientific Assembly IAGA 2013, Merida, Mexico, 26-31 August 2013*

Stanica D., Stanica D.A., EM studies for the earthquake-induced landslides hazard assessment, *The XIIth Scientific Assembly IAGA 2013, Merida, Mexico, 26-31 August 2013*

Dobrica V., Demetrescu C., Interdecadal variability of precipitation in Europe and its connection with solar variability, *European Meteorological Society* (*EMS) Assembly, Reading, UK, 8-14 September 2013*

Besutiu L., Orlyuk M., **Zlagnean L**., Roments., A., **Atanasiu L**., Makarenko I. Geomagnetic insights on an active tectonic contact: Peceneaga-Camena Fault; *5th International Scientific Conference "Geophysical Technologies of Geological Media Predicting and Monitoring", Lvov, Ukraine, 1-4 October 2013*

Chitea F., Ioane D., Marunteanu C., Garbacea, G.F., Electric resistivity tomography (ERT) measurements in area of an old salt mine, *7th Congress of the Balkan Geophysical Society, Tirana (Albania), 7–10 October 2013*

Ioane D., **Chitea F**., Resistivity (ERT) prospection in Tropaeum Traiani roman city, *7th Congress of the Balkan Geophysical Society, Tirana (Albania), 7–10 October 2013*

Maris Muntean, G., Besliu-Ionescu, D., Mierla, M., Comparison of the high-speed solar wind streams during the first four years of last five solar cycles (nos. 20 – 24), *Tenth European Space Weather Week, Antwerp, Belgium, November 18-22, 2013*

Mierla M., Rodriguez L., Kilpua E., D'Huys E., Zuccarello F., Zhukov A., Seaton D., Study of stealth CMEs arriving at the Earth in the period 2009 – 2010, *Tenth European Space Weather Week, Antwerp, Belgium, November 18-22, 2013*

Anexa 9

Academia Română
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O comunicare orală prezentată la o manifestare ştiinţifică naţională în 2013

Mitrofan H., **Anghelache M.-A**., **Chitea F**., Ioane D., Crustal seismicity triggered in response to major Vrancea mantle-depth earthquakes: The possible involvement of a vertical structure extending beneath the Târgu Secuiesc basin, *Sesiunea naţională de comunicări ştiinţifice GEO-2013, Bucuresti, 24-25 mai 2013*.

Ioane D., **Chitea F**., Mărunțeanu M., Mezincescu M., Gârbacea G., Resistivity imaging of underground voids at Ocna Dej salt mine, *Sesiunea naţională de comunicări ştiinţifice GEO-2013, Bucuresti, 24-25 mai 2013*.

Ferent F., **Chitea F**., Integration of magnetic data from Adamclisi archaeological site using geographic information system, *Sesiunea naţională de comunicări ştiinţifice GEO-2013, Bucuresti, 24-25 mai 2013*.

Visan M., Panaiotu C., Palaeomagnetic study of some Neogene magmatic rocks from the Gurghiu and Harghita Mountains (Romania), *Simpozionul Naţional de Geologie şi Geofizică GEO 2013, May, 2013*

Diacopolos C., Cercetari megnetotelurice de înaltă frecventă si geoelectice in zona cu alunecari de teren Provita de Sus, *Simpozionul Naţional de Geologie şi Geofizică GEO 2013, May, 2013*

Popescu M., Study of geoelectromagnetic signal associated with seismic activity in Vrancea region, *Simpozionul Naţional de Geologie şi Geofizică GEO 2013, May, 2013*

Niculae L., 2013. Morfodinamica versanţilor din bazinul Pârâului Tichiriş, A X-a *Conferinţa Naţională a Societăţii de Geografie, Timişoara, 24-26 Mai 2013*

Niculae L., 2013. Dinamica versanţilor din spaţiile deluroase ale Subcarpaţilor Vrancei Studii de caz: Bazinele hidrografice Tichiris si Pârâul Tulbure; *Sesiunea Anuală de Comunicări Ştiinţifice a Institutului de Geografie al Academiei Române: "Modificările mediului şi dezvoltarea durabilă a Bazinului Inferior al Dunării", Bucureşti, 5 iulie 2013*

Anexa 10

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Un contract extrabugetar obţinut de către institut/centru de la organizaţii internaţionale sau naţionale în 2013

Contracte extrabugetar obţinut de către compartiment de la organizaţii internaţionale

Proiect **CYBERDYN**: Infrastructură cibernetică pentru studii geodinamice relaţionate cu zona seismogenă Vrancea, Finanţare UE: POS CCE O2.1.2. ID-593, cod SMIS-CSNR 12499: **Valoare 2013: 725.000 lei**/2012

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Contracte extrabugetare obţinute de către institut de la organizaţii naţionale

Programul IDEI UEFISCDI
Titlu proiect: " Câmpul geomagnetic sub forcingul heliosferic. Determinarea structurii interne a Pământului şi evaluarea hazardului geofizic produs de fenomene eruptive solare ", Contract 93/5.10.2011, Director de proiect: Dr.Crişan Demetrescu, membru correspondent al Academiei Române, **Valoare 2013 IGSSSAR: 203.170,88 lei**

Programul Tinere Echipe UEFISCDI
Titlu Proiect: Cercetari asupra geoefectivitatii perturbatiilor heliosferice (GEOHELP), Proiect TE 73/2010, director de proiect: Dr. Marilena Mierla, **Valoare 2013 IGSSSAR: 160.190,06 lei**

Titlu Proiect: Activitatea solară şi geomagnetica şi influenţele lor asupra mediului terestru. Studiu de caz - clima, Program TE, Contract 21/5.10.2011, director de proiect: Dr.Venera Dobrică, **Valoare 2013 IGSSSAR: 220.000 lei**

PN-II-ID-PCE-2012
Titlu Proiect: „Studii integrate asupra edificiilor vulcanice post-colizionale de vârstă Miocen-Cuaternară din Carpaţii Orientali; constrângeri geologice şi geofizice (în limba engleză: Integrated study of the post-collisional Miocene-Quaternary volcanic forms in the East Carpathians using geological and geophysical constraints InstEC)", având codul PN-II-ID-PCE-2012-4-0137, **Valoare 2013 IGSSSAR 113.338 lei**

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Anexa 11

Studii de impact şi servicii comandate sau utilizate de beneficiar
2013

Manea V.C, Manea M., Pomeran, M., 2013. Studiu privind activitatea de rulare/vizualizare/ validare modele numerice 3D de convecție în manta și de deformare litosferică; contract 184/18.10.2010 completat cu AA2/2012 si AA3/2013

Manea V.C, Manea M., 2013. Studiu privind activitatea de pregătire a modelelor pentru publicare; contract 184/18.10.2010 completat cu AA2/2012 și AA3/2013

Manea M., Manea V.C.., 2013. Studiu privind activitatea de pregătire a aplicațiilor online pentru vizualizarea și interogarea în timp real a modelelor 3D pe portalul web; contract 184/18.10.2010 completat cu AA2/2012 și AA3/2013

Beșuțiu L., Zlăgnean L., Pomeran M., Brezeanu R., 2013. Studiu privind activitatea de achiziție și procesare de noi date de teren (partea a 4-a); contract 184/18.10.2010 completat cu AA2/2012 si AA3/2013

Beșuțiu L., Atanasiu L., Zlăgnean L., Pomeran M., Brezeanu R., 2013. Studiu privind actualizarea bazelor de date (partea a 3-a); contract 184/18.10.2010 completat cu AA2/2012 și AA3/2013

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Anexa 12

Capacitatea de a pregăti superior tineri cercetători (doctorat) în 2013

1. Cismariu Bogdan
2. Greculeasa Răzvan
3. Ionescu Daniela Nicoleta
4. Isac Anca Margareta
5. Moraru Monica
6. Nicolae Lucica
7. Niţoiu Daniela
8. Nuţu Maria-Lidia
9. Păun Rareş Dumitru
10. Pomeran Mihai
11. Popescu Marian
12. Stănică Dragoş Armand
13. Stere (Chiricuţă) Oana
14. Ştefan Cristiana
15. Vişan Mădălina
16. Vladimirescu Nicoleta

Post-doc în 2013

1. Dr.Manea Marina

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Anexa 13

Un membru în colectivul de redacţie al unei reviste naţionale/internaţionale (cotată de Web of Science, Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaţionale consacrate
2013

Mariş G., Membru în colectivul de redacţie al **Romanian Astronomical Journal**, Ed. Academiei Române (revistă inclusă în baza de date: ***The Smithsonian/ NASA Astrophysics Data System***, http://www.adsabs.harvard.edu/)

Mariş G., Membru în colectivul de redacţie al revistei **SUN and GEOSPHERE**, (The International Journal of Research and Applications, founded in 8 June 2005, peer-reviewed and published by the Balkan, Black Sea and Caspian Sea Regional Network on Space Weather Studies), http://www.shao.az/SG/ – http://www.stil.bas.bg/IHY/SUN_GEO.htm

Săndulescu A., Academician, **Romanian Journal of Physics**, Editura Academiei Române, Bucureşti

Seghedi, I., Membru în colectivul de redactie (Advisory Board) al revistei "**Geologica Carpathica**" (Slovacia la Bratislava). www.geologicacarpathica.sk

Seghedi, I., Membru în colectivul de redactie (Advisory Board) al www.versita.com

Seghedi, I., Membru în colectivul "**European Science Foundation Pool of Reviewers**" pentru perioada 01 Mai 2011 - 30 Aprilie 2013

Szakacs, A., Membru în colectivul de redactie al **Studia Universitatis Babes-Bolyai**, Geologie, Cluj-Napoca, Romania

Szakacs, A., Membru în colectivul de redactie al **Geologica Balcanica**, Sofia, Bulgaria

Zugrăvescu D., Membru corespondent al Academiei Române, **Romanian Journal of Physics**, Editura Academiei Române, Bucureşti

Membri în colectivele de redacţie ale revistelor recunoscute national (categoria B în clasificarea CNSIS)

Zugrăvescu D., Membru corespondent al Academiei Române, **Revue Roumaine de Géophysique**, Editura Academiei Române, Bucureşti

Demetrescu C., Membru corespondent al Academiei Române, **Revue Roumaine de Géophysique**, Editura Academiei Române, Bucureşti

Stanica D., membru în colectivul de redacţie, **Revue Roumaine de Géophysique**, Editura Academiei Române, Bucureşti

Anghelache M. - Secretar de redacţie **Studii şi comunicări/DIS, vol. V/2012**, Editura Mega, Cluj-Napoca, inclusă în baza de date SCIPIO (Scientific Publishing & Information Online), http://www.scipio.ro/web/149905.

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Anexa 14

Premii ale Academiei Române în 2013

Dr.Marilena Mierlă - Premiul ”Ștefan Hepites” al Academiei Române pentru anul 2011 **grupului de lucrări privind geneza și evoluția ejecțiilor coronale de masă**, și anume:

1. **Mierla, M.**, Inhester, B., Rodriguez, L., Gissot, S., Zhukov, A., and Srivastava, N., On 3D reconstruction of coronal mass ejections: II. Longitudinal and latitudinal width analysis of 31 August 2007 event, J. Atm. Solar-Terr. Phys. 73, 1166-1172, DOI: 10.1016/j.jastp.2010.11.028, 2011, FI = 1.579

2. **Mierla, M.**, Chifu, I., Inhester, B., Rodriguez, L., and Zhukov, A., Low polarised emission from the core of coronal mass ejections, Astronomy&Astrophysics, 530, L1, DOI: 10.1051/0004-6361/201016295, 2011, FI = 4.41

3. Rodriguez, L., **Mierla, M.**, Zhukov, A. N., West, M., and Kilpua, E., Linking Remote-Sensing and In Situ Observations of Coronal Mass Ejections Using STEREO, Solar Phys 270, 561-573, DOI: 10.1007/s11207-011-9784-8, 2011, FI = 3.386

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Un premiu (distincţie) al unei societăţi ştiinţifice internaţionale obţinut printr-un proces de selecţie în 2013

Drd. Ștefan Cristiana – Outstanding young scientist poster pentru posterul prezentat la Adunarea Generală a EGU (*European Geosciences Union*) 2013 și anume:

Stefan C., Demetrescu C., Dobrica V., Long-term external effects in annual means from observatory and main field models, *European Geosciences Union General Assembly, Vienna, Austria, 7 – 12 April 2013*2.