

Summary report for the 19-20 December Meeting with the Advisory Board

1 Introductory Remarks

The 2016 Meeting is occurring almost in the end of 2016, at almost (but not quite) 2/3 of the current funding period. In 2017, IDL will need to submit a new strategic proposal for external evaluation. Although very few details are known of that process it is already apparent that the process will be designed from scratch, with at least 25 evaluation panels that will visit all groups, so we expect a more specialized panel (maybe in Geosciences) and a more robust evaluation.

Whatever details turn out to be decided for the external evaluation, IDL needs to present itself as a mature group, more compact and focused than was perceived in the previous exercise. The new structure with 5 Research Groups is a step in that direction. Another step is the progress made in some IDL central activities, namely in its web page, outreach initiatives, and PhD training program, which are now at a considerable better level than in 2014, and already working across all IDL fields. The third, and most important step, comes from a relevant evolution of the team by the attraction of promising young researchers, namely the 5 new FCT research contracts starting in January 2017.

Current IDL structure is largely the result of a renovation of the team, which started by the attraction of young post-doc researchers in the Ciência 2007/08 programs and in the IDL LA contract (2005-2014). A few of these researchers are now in permanent positions at the University of Lisbon, and play key roles in driving our research at different levels, most others have moved to other institutions often abroad. While IDL cannot control that process, as permanent positions are only offered by the University at the Department level, it is essential that new permanent positions can be regularly offered to the best of our researchers, progressively improving the scientific value of those departments.

In the preparation of the 2017 proposal we expect to fine tune the IDL structure. Unlike what was done in the 2014 proposal, where a drastic structural change was required, the new proposal will only improve our current structure. A review of the team will, however, be required, aiming to optimize research indicators and to reflect the real evolution of our research. Such changes will only be attempted once the rules are known in greater detail.

2 Highlights in 2015-2016

Each research group has prepared a short report, focused on its scientific achievements and objectives (key questions), supported by a list of deliverables in 2015-2016 (not complete in what concerns 2016). An integrated list of deliverables may be found at the end of the present document. As will be shown in the meeting, an analysis of those deliverables shows progress in bibliometric output, with an improvement in the number of papers, and in internal collaborations, while maintaining a high level of international co-authorships.

In 2016, the IDL outreach activities suffered a qualitative change, with the hiring of a new responsible for that area at the post-doc level. A specific report covers such activities, which

led, in particular, to the production of the IDL 2015 Highlights report, written for an external reader, completed in the summer 2016 and then sent to the advisory board. In spring 2017 a new IDL 2016 Highlights report will be prepared. Outreach activities now have a clear presence in the IDL webpage and Facebook, covering different audiences, from IDL members, to the research community, secondary school students and the general public.

The EARTHSYSTEMS Phd program, to be reviewed in February 2017 by its Advisory board, also showed important progress. The last call of the program, now under evaluation, had a record number of >120 candidates, improving from an average of 50-60 candidates in the 3 previous calls. In 2016, EARTHSYSTEMS organized its third summer school, now on (hands-on) “Solid” Earth numerical modelling, maintaining its yearly frequency. At the current cruise speed the program will peak in 2017 (with 32 funded students in different years). The future of these programs is currently unknown, but we believe EARTHSYSTEMS has been a very important and well managed program.

Some of IDL research was recognized in 2016 different contexts. Eric Font and Miguel Brito received the University of Lisbon prize. João Duarte was awarded the EGU Arnt Richter Award for Outstanding Young Scientists, to receive in EGU 2017.

Finally, IDL was very successful in the call for FCT research positions, receiving 5 new young researchers in 5-year contracts. It is worth stressing that two of these new contracts were already hired by IDL, confirming our hiring criteria. The three other come from abroad (Emanuel Dutra from ECMWF, Ricardo Ramalho from Bristol, Sónia Jerez from Barcelona). Altogether they represent a strong contribution to the IDL team.

3 Objectives

IDL needs to further consolidate as an Earth System Science group, taking benefit from its mix of researchers and students (under to post-graduate), from its research infrastructure and from its international networking. Such consolidation requires a continuous improvement of the team: attracting young researchers, offering them the best research and career environment, promoting synergy between researchers, and with other international teams. Some of this is, of course, controlled by available funding; but we must acknowledge that some of these key strategies are controlled by external bodies, such as the Departments. We need, however, to be pro-active in all these fronts.

Within the Portuguese Geoscience community, IDL is unique: it is a real group, not a collection of separate groups that apply to common funding; it has by far the largest student community, and the best laboratory, field instruments, and computing infrastructure; it is already able to run relevant common programs associated with advanced training and outreach; it has excellent administrative support. This ability to pursue common interests at the IDL level has allowed us in the past to concentrate resources on the hiring of researchers, and in key infrastructures.

In the near future we see an opportunity to further increase intra-IDL synergies, building from the experience of the EARTHSYSTEMS program. Even if funding for the PhD program from FCT is interrupted, we should maintain it, as a way to increase interactions across IDL research fields. The possibility of synergies with the Sustainable Energy Systems program, where IDL collaborates with groups in 3 other schools and with MIT, should also be explored

IDL also needs to respond actively to the new funding opportunities, at the national and international levels. At the national level, the priority has been set by FCT to implement the new research contracts, which replace post-doc grants, and IDL will try to have a competitive profile in those calls. At the international level, we expect that the group evolution will allow, for the first time, some competitive proposals at the highest level, namely for the ERC calls. At the same time, IDL researchers will certainly keep an active role in different FCT and European project calls.

4 The 19-20 December meeting

IDL meetings with the Advisory Board have always played an important role in the establishment of IDL strategy. Considering the yet undecided rules for the next external evaluation exercise, which do not allow for some important decisions that will have to be taken in the near future, we have decided to ask each group to write a scientifically focused report addressing its recent achievements and the key scientific questions that the group sees driving its next research. We have asked all groups to look at last year's report from the advisory board, when writing its report. At this stage, we didn't try to reassess the global scientific strategy, as the 3 research lines prepared for 2015-2020 maintain its full relevance.

We are looking forward to the next meeting for an open and fruitful discussion with the Advisory Board. We will try to show that we have made significant progress, but, as usual, we expect an independent critical view of our work, which can help us progress further.

9 December 2016

Pedro Miranda

IDL Deliverables in 2016 (not complete)

In press (available on-line with DOI)

1. Clain S, Reis C, Costa R, Figueiredo J, **Baptista MA, Miranda JM (2016)** Second-order finite volume with hydrostatic reconstruction for tsunami simulation. *J. Adv. Model. Earth Syst.* doi:10.1002/2015MS000603
2. **Díez Fernández R, Pereira MF (in press)** Extensional orogenic collapse captured by strike-slip tectonics: Constraints from structural geology and U-Pb geochronology of the Pinhel shear zone (Variscan orogen, Iberian Massif), *Tectonophysics*. DOI: 10.1016/j.tecto.2016.10.023
3. Duarte JC, Schellart WP, Rosas FR (2016) The future of Earth's oceans: consequences of subduction initiation in the Atlantic and implications for supercontinent formation, *Geological Magazine*, **in press**, doi.org/10.1017/S0016756816000716
4. **Góis Marques CA, Madeira J, Menezes de Sequeira M (2016)** Inventory and review of the Mio-Pleistocene São Jorge flora (Madeira Island, Portugal): palaeoecological and biogeographical implications, *Journal of Systematic Paleontology (in press)*.
5. Granier B, **Azerêdo AC, Ramalho MM (accepted)** Taxonomic revision of *Cylindroporella lusitanica* Ramalho, 1970: in search for the origins of the Family Dasycladaceae. *Island Arc*.
6. **Moreno J, Fatela F, Leorri E, Moreno F, Freitas MC, Valente T, Araújo MF, Gómez-Navarro JJ, Guise L, Blake WH, (accepted)** Bromine soil/sediment enrichment in tidal salt marshes as a potential indicator of climate changes driven by solar activity: new insights from W coast Portuguese estuaries, *STOTEN*, (November 2016).
7. Ruiz-Fernández J, Nieuwendam A, Oliva M, Lopes V, Cruces A, Freitas MC, Janeiro AI, López-Sáez JA (in press) Cryogenic processes and fire activity in a high Atlantic mountain area in NW Iberia (Picos de Europa) during the Mid-Late Holocene. *Science of the Total Environment*, doi: 10.1016/j.scitotenv.2016.03.022 (online from 10 April 2016).
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2. Antunes V, Candeias A, Carvalho ML, Coroado J, Serrão V, **Cachão M, Carvalho ML (2016)** A multidisciplinary approach to the study of the brightening effects of white chalk ground layers in 15th and 16th century paintings. *Anal. Methods*, 8 (24): 4773 – 4966. DOI: **10.1039/C6AY00435K**.
3. Ávila S, Melo C, Berning B, Cordeiro R, Landau BM, **Silva CM da (2016)** *Persististrombus coronatus* (Mollusca: Strombidae) in the Lower Pliocene of Santa Maria Island (Azores: NE Atlantic): Palaeoecology, palaeoclimatology and palaeobiogeographic implications. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 441: 912-923. DOI: 10.1016/j.palaeo.2015.10.043.
4. Ávila SP, **Cachão M, Ramalho RS, Botelho AZ, Madeira P, Rebelo AC, Cordeiro R, Melo C, Hipólito A, Ventura MA, Lipps JH (2016)** The palaeontological heritage of Santa Maria Island

- (Azores: NE Atlantic): a re-evaluation of geosites in GeoPark Azores and their use in geotourism. *Geoheritage*, 8: 155-171. DOI: [10.1007/s12371-015-0148-x](https://doi.org/10.1007/s12371-015-0148-x)
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158. Roque C (2015) The Miocene-Pliocene transition in the South Portuguese Margin (Gulf of Cadiz, SW Iberia). 2015. MEDGATE Mediterranean-Atlantic Gateways (Neogene to present); RCMNS Interim Colloquium, 5th-8th May 2015, Rabat, Morocco.
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- slope (Central Atlantic). VII Symposium MIA15, Malaga, Spain, 21-23 September 2015, p. 498-500.
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 162. Roque C., Madureira P., Hernández-Molina FJ, Santos de Campos A, Quartau R, Carrara G, Brandão F, Vázquez JT, Somoza L (2015) Acoustic evidence of along-slope processes associated with mass movement deposits on the Madeira Island lower slope (Eastern Central Atlantic). VII Symposium MIA15, Malaga, Spain, 21-23 September 2015, p. 583-58.
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Papers presented at national meetings 46

1. Alves JM, Brito MC, Pêra D, Freitas S, Almeida RH, Casaleiro A, Costa I (2015) Sustentabilidade energética em casa, Congresso Nacional de Práticas Pedagógicas no Ensino Superior, Leiria.
2. Amorim A, Lira C (2015) Detecção remota e geoprocessamento automático no estudo da evolução de margens estuarinas (Restinga do Alfeite). Livro de Resumos: 67-68. 3ª Conferência sobre Morfodinâmica Estuarina e Costeira - MEC2015, 14-15 Maio, Algarve, 2015.
3. Andrade C (invited speaker): Set back lines and coastal areas at risk in the Almada municipality, Workshop DEGAS-C. M. Almada / Serv. Protecção Civil Reino da Suécia. CMIA –Centro de Monitorização e Interpretação Ambiental, Costa da Caparica, 07 May 2015.
4. Bastos AP, Lira C, Taborda R, Ribeiro M, Andrade C (2015) Morphological storm threshold: an example from a pocket beach in the west Portuguese coast. Livro de Resumos: 73-74.3ª Conferência sobre Morfodinâmica Estuarina e Costeira - MEC2015, 14-15 Maio, Algarve, 2015.
5. Cachão, M (Organizer) 1.º Curso de Verão em Paleontologia de Vertebrados, Departamento de Geologia, Faculdade de Ciências da Universidade de Lisboa (Portugal).
6. Carvalho AN, Pereira F, Gaspar MB, Drago T (2015) Spatial and seasonal variation of macrobenthic community in response to shoreface morphodynamic of the Eastern Algarve shelf. 3ª Conferência sobre morfodinâmica estuarina e costeira. MEC2015, FARO, 14- 15 May 2015.

7. Carvalho AN, Pereira F, Gaspar MB, Drago T (2015) Spatial and seasonal variation of macrobenthic community in response to shoreface morphodynamic of the eastern Algarve shelf, Workshop about “Coastal morphodynamics” IPMA Olhão, 11 December 2015.
8. Carvalho MR (2015) Contaminação versus Proteção de Aquíferos. Conferência proferida na Universidade Lusófona a 20/jan/2015.
9. Carvalho MR (2015) Hidrotermalismo e Recursos Geotérmicos em Portugal. Conferência proferida no âmbito do Mestrado em Energias Sustentáveis, módulo energia geotérmica. Instituto Superior de Engenharia do Porto.
10. Cascalho J, Drago T, Taborda R, Silva A, Rosa M (2015) Sand tracer experiment on a shoreface environment – first results. 3ª Conferência sobre morfodinâmica estuarina e costeira. MEC2015, Faro, 14 -15 May 2015
11. Cascalho J, Taborda R, Drago T, Rosa M, Bosnic I (2015) Inner shelf sedimentary dynamics deduced from a fluorescent sand tracers experiment (preliminary results) Workshop about “Coastal morphodynamics” IPMA Olhão, 11 December 2015.
12. Catita C, Redweik P, Pereira J, Brito M (2015) Fusão de Dados LiDAR com Modelos 3D Urbanos: Uma Aplicação para o Potencial Solar de Edifícios. Atas da VIII Conferência Nacional de Cartografia e Geodesia, Amadora, 29-30 Outubro, (pp.8) ISBN: 978-989-8152-10-7.
13. Costa PJM, Cascalho J, Andrade C, Freitas MC (2015) Mecanismos de transporte sedimentar durante inundações tsunamigénicas inferidos através do estudo de minerais pesados. Resumo alargado de comunicação apresentada na 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, Universidade do Algarve MEC2015. May 2015, Faro. Actas da 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, 11-12.
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15. **Dias da Silva Í** (2015). Das rochas à montanha... através do desenho, Conversas à volta do Cru e do Cozido, Oficinas do Convento, 13th novembre 2015. E-book in press: 32-43 <https://www.youtube.com/watch?v=xmTH7K7lBrU>
16. Drago T, Rosa M, Taborda R, Cascalho J, Teixeira S, Garel E, Silva A (2015) Small sand pit experience offshore Tavira – preliminary results. 3ª Conferência sobre morfodinâmica estuarina e costeira. MEC2015, FARO, 14 - 15 May 2015.
17. Drago T, Rosa M, Taborda R, Cascalho J, Teixeira S, Garel E, Silva A (2015) Small sand pit experiment offshore Tavira – preliminar results. Resumo de alargado de comunicação apresentada na 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, Universidade do Algarve, Faro. Actas da 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, 59-60.

18. Duarte J, Taborda R, Ribeiro M, Cascalho J, Silva A, Bosnic I (2015) North beach Nazaré large scale tracer experiment. Resumo de alargado de comunicação apresentada na 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, Universidade do Algarve, Faro. Actas da 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, 51-52.
19. **Gonçalves MA, Mateus A, Jesus A** (2015). Geoquímica de solos no Complexo Ígneo de Beja e bordo sul da Zona de Ossa Morena. Solos em Prospeção Mineira, Centro de Ciência Viva do Lousal (Portugal): 10-12.
20. **Gouveia C, Páscoa P, Russo A, Trigo RM** (2015) Drought evolution in the Iberian Peninsula since early 20th century, APMG2015 9º Simpósio de Meteorologia e Geofísica da APMG - 16º Encontro Luso-Espanhol de Meteorologia, Tavira. ORAL
21. **Gouveia C, Russo A, DaCamara C, Sousa P, Trigo RM** (2015) The influence of drought events on wildfires in the Iberian Peninsula, APMG2015 9º Simpósio de Meteorologia e Geofísica da APMG - 16º Encontro Luso-Espanhol de Meteorologia, Tavira. ORAL
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23. **Liberato MLR, Gouveia C, Russo A, Ramos AM, Trigo RM** (2015) A Ranking of Persistent Droughts on Iberian Peninsula, APMG2015 9º Simpósio de Meteorologia e Geofísica da APMG - 16º Encontro Luso-Espanhol de Meteorologia, Tavira. ORAL
24. **Luz F, Mateus A, Matos JX, Gonçalves MA** (2015). Geochemistry of soils and stream sediments in the NE border of the Iberian Pyrite Belt: Implications to Mineral Exploration. Solos em Prospeção Mineira, Centro de Ciência Viva do Lousal (Portugal): 13-15.
25. Martins AA, Gomes A, Cunha PP, **Cabral J** (2015). Incisão fluvial em tributários do rio Douro, uplift regional e controlo tectónico na evolução dos perfis longitudinais. In Associação Portuguesa de Geomorfólogos (editor), Vol. IX, ISBN: 978-989-96462-6-1, VII Congresso Nacional de Geomorfologia (Actas), Lisboa, 8-9 Outubro 2015, pp. 117-122.
26. Martins JPA, Cardoso RM, Soares PMM, Trigo IF, Belo-Pereira M, Moreira N (2015) Ciclo diurno das nuvens costeiras na costa oeste da Península Ibérica e a sua relação com as circulações térmicas, 9º Simpósio de Meteorologia e Geofísica da APMG, 16º Encontro Luso-Espanhol de Meteorologia, Tavira, Portugal.
27. **Mata J (2015)** - Carbonatitos de Cabo Verde como produto de um reservatório mantélico profundo e “primordial”. *V Congresso dos Jovens Investigadores em Geociências (Estremoz):3*.
28. Matildes R, Redweik P, Marques F (2015) Técnicas de Detecção Remota Próximas para Monitorização do Litoral. Atas da VIII Conferência Nacional de Cartografia e Geodesia, Amadora, 29-30 Outubro, (pp.8) ISBN: 978-989-8152-10-7.
29. Medeiros AC, Ribeiro L, Carvalho MR, Simões M (2015) Caracterização Hidroquímica e Estimativa da Recarga por Balanço de Cloretos No Aquífero Mio-Pliocénico do Tejo, na Península de Setúbal . 10.º Seminário Sobre Águas Subterrâneas . Évora, 9-10 de Abril. Universidade de Évora: 45 - 48.
30. Mendes T, Henriques S, Catalão J, Redweik P, Vieira G (2015) Photogrammetry with UAV's: Quality Assessment of Open-Source Software for Generation of Orthophotos and Digital

Surface Models. Atas da VIII Conferência Nacional de Cartografia e Geodesia, Amadora, 29-30 Outubro, (pp.8) ISBN: 978-989-8152-10-7.

31. Nunes P, Catita C, Pacheco M (2015) Sistema Geoespacial de Apoio à Decisão para identificação de locais de acolhimento de petroleiros em dificuldades no mar, In Proceedings of the VIII Conferência Nacional de Cartografia e Geodesia, 29-30 Outubro 2015, Amadora, Portugal, ISBN: 978-989-8152-10-7
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33. Oliveira A, Cascalho J, Duarte J, Ribeiro M, Taborda R (2015) - Sand beach bulk mineralogy potential use to deduce transport processes (Nazaré). Resumo de alargado de comunicação apresentada na 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, Universidade do Algarve, Faro. Actas da 3.ª Conferência sobre a Morfodinâmica Estuarina e Costeira, 3-4.
34. Páscoa P, **Gouveia C, Russo A, Trigo RM** (2015) Wheat yield and droughts events over the Iberian Peninsula, APMG2015 9º Simpósio de Meteorologia e Geofísica da APMG - 16º Encontro Luso-Espanhol de Meteorologia, Tavira. POSTER
35. Redweik P (2015). Fotogrametria e laser scanning – como modelar o Mundo através da luz.– Colóquio sobre Aplicações Técnicas da Luz em Engenharia- Ordem dos Engenheiros, 25 de Junho em Lisboa.
36. Redweik P, Catita C, Brito M, Carmo MB, Cláudio AP, Afonso AP, Ferreira A (2015) SOL: Um Modelo Urbano de Radiação Solar e suas Aplicações. Atas da VIII Conferência Nacional de Cartografia e Geodesia, Amadora, 29-30 Outubro, (pp.7) ISBN: 978-989-8152-10-7.
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39. Rijo N, Lima DCA, Semedo A, Miranda PMA, Cardoso RM, Soares PMM (2014) The Iberian Peninsula Low-Level Coastal Jet: Climatology and Case Study Analysis, Proceedings of Jornadas do Mar 2014, 19pp.
40. Rijo N, Lima DCA, Semedo A, Miranda PMA, Soares PMM, Cardoso RM (2014) The Iberian Coastal Low-Level Jet Structure and Dynamics, Proceedings 3.as Jornadas de Engenharia Hidrográfica, 4pp.
41. Rodrigues C, Redweik P (2015) Extração de Fachadas de Edifícios em Imagens Obtidas com UAV. Atas da VIII Conferência Nacional de Cartografia e Geodesia, Amadora, 29-30 Outubro, (pp.7) ISBN: 978-989-8152-10-7.

42. **Russo A, Gouveia C**, Levy I, Dayan Y, Jerez S, Mendes M, **Trigo RM** (2015) The association between circulation weather types and coastal recirculation affecting air pollutants in Portugal, APMG2015 9^o Simpósio de Meteorologia e Geofísica da APMG - 16^o Encontro Luso-Espanhol de Meteorologia, Tavira. ORAL
43. **Russo A, Gouveia C, Trigo RM, Liberato M, DaCamara C** (2015) The influence of circulation weather patterns on drought occurrence in the Iberian Peninsula, APMG2015 9^o Simpósio de Meteorologia e Geofísica da APMG - 16^o Encontro Luso-Espanhol de Meteorologia, Tavira. ORAL
44. Salesa M (2015) (Talk): *The Evolutionary History of Carnivoran Mammals* e *“Functional Anatomy in Palaeobiology: Sabre-tooth and False Thumbs”*. 1.^o Curso de Verão em Paleontologia de Vertebrados, Departamento de Geologia, Faculdade de Ciências da Universidade de Lisboa (Portugal). 20-21 julho de 2015.
45. Salgado R, Potes M, Albino A, Apolinário J, Barbosa S, Bárias S, Beliche P, Bortoli D, Canhoto P, Costa M J, Fernandes RM, Harrison G, Ilhéu A, Le Moigne P, Lima R, Lopes F, Lopes T, Marques J, Melgão M, Miranda PM, Morais M, Murteira M, Nicoll K, Novais MH, Nunes S, Penha A, Parrondo MC, Pereira S, Policarpo C, Prior V, Rodrigues CM, Rosado J, Sá A, Serafim A, Silva H, Soares PMM, Tlemçani M, Zavattieri A (2015) ALEX2014: CAMPANHA DE OBSERVAÇÕES HIDRO-METEOROLÓGICAS EM ALQUEVA, 9^o Simpósio de Meteorologia e Geofísica da APMG, 16^o Encontro Luso-Espanhol de Meteorologia, Tavira, Portugal.
46. Trindade A, Omira R, Wronna M, Catita C, Baptista MA (2015) Análise da vulnerabilidade ao impacto de tsunamis do edificado da zona portuária de Sines - resultados preliminares. In Proceedings of the 9^o Simpósio de Meteorologia e Geofísica da APMG, 16^o Encontro Luso-Espanhol de Meteorologia, 16 a 18 de Março de 2015, Tavira, Portugal.

Organization of conferences and seminars

- (1) **Ricardo Trigo** was one of the organizers and conveners of the session “Spatial and temporal patterns of wildfires: models, theory, and reality” at the General Assembly da European Geophysical Union, Vienna, Austria, 12-17 April, 2015.
- (2) 13th SGA Biennial Meeting, 2015, Nancy, France (SGA Vice-President and member of the scientific committee): <http://sga2015.blog.univ-lorraine.fr/>
- (3) 2015 MIT Portugal Annual Conference
- (1) **Susana Custódio** was one of the conveners and chairpersons of the session “Earthquakes, active tectonics, and seismic hazard in regions of slow lithospheric deformation”, EGU 2015, Vienna.
- (2) **Susana Custódio** was member of the scientific committee of the 2015 ORFEUS Annual Observatory Coordination meeting, Bucharest, Romania.
- (3) **Icaro Dias da Silva** was co-organizer of the “XXVII Reunión de la Comisión de Tectónica de la Sociedad Geológica de España”, organized by Emilio González Clavijo and, 3-5 septembre 2015, Miranda do Douro-Alcañices, Portugal-Spain.
(http://www.sociedadgeologica.es/comisiones_tectonica.html;
http://www.sociedadgeologica.es/comisiones/tectonica_r27.html)

- (4) **Eric Font** was one of the conveners and chairpersons of the session “Environmental Magnetism: advances and perspectives”, EGU 2015, Vienna.
- (5) **Eric Font** was one of the co-conveners and chairpersons of the session “Volcanism, Impacts, Mass Extinctions and Global Environmental Changes: where do we stand?”, EGU 2015, Vienna.

Conferências Outreach

Serra JM, A energia fotovoltaica e as suas aplicações, Ciclo Noites de Ciências, Noites de Luz no âmbito da comemoração do Ano Internacional da Luz

Eventos Outreach (visitas a escolas, ..)

Panão M, Jornadas de Energia e Ambiente (iniciativa da Comissão de Alunos de Engenharia da Energia e do Ambiente)

Panão M, Palestras de divulgação nas escolas: Escola Secundária Santa Maria do Olival, Tomar, Escola Secundária Quinta do Marquês, Oeiras

Serra JM, Lobato K, Organização da Corrida de Carros Solares Portugal Solar Challenge 2015, 18 Julho 2015. <https://www.facebook.com/PortugalSolarChallenge/>

Brito MC, Workshops fornos solares (FCUL, outubro 2015) [organizado por alunos, com o apoio do DEGGE/FCUL]

Panão M, Brito MC, Escola de Verão de Energia (FCUL, Julho 2015)

Brito MC, Consultor científico para a exposição Lisboa cidade de Luz, organizado pela CML, Junho-Dezembro 2015

Brito MC, Participação no documentário À Porta da História: episódio 7 | Padre Himalaia, exibido RTP Internacional (Ukbar filmes), Dezembro 2015

Catita C, Participação nas actividades Verão na UL – Actividade de SIG, alunos secundário (60 alunos) – 1 Julho 2015, alunos 2º ciclo (25 alunos), em colaboração com as alunas Rita Matildes e Carolina.

PhD Thesis

- (1) Ana Filipa Bastos, 2015, Impacts of Climate Variability and Extremes on Carbon uptake by land ecosystems, tese de doutoramento em Ciências Geofísicas e da Geoinformação (Deteção Remota), Universidade de Lisboa, supervision Trigo R.M, Gouveia C.M.
- (2) Diana Neves, (2015) Doutoramento em Sistemas Sustentáveis de Energia. Título “Optimization of hybrid renewable Energy Systems on Isolated Microgrids: A Smart Grid Approach”. Orientador Prof. António Vallêra, dia 11 de Janeiro de 2015.
- (3) Fernando Barrio Parra (2015). Study of the beach-dune sediment exchange on the outer coast of The Fangar Spit, Ebro Delta. Universidad Rey Juan Carlos, Spain. Co-supervision: Taborda R.
- (4) Gema Siliceo Nicolás, 2015, Anatomía funcional y Palaeobiología de *Magericyon anceps* (Amphicyonidae, Carnivora) de los yacimientos vallesienses (Mioceno superior) del Cerro de los Batallones (Torrejón de Velasco, Madrid). Tese de doutoramento em Paleontologia, Universidad de Alcalá de Henares (Madrid, Espanha). Supervisor Salesa M.

- (5) Luis JS Albardeiro (2015) *Aplicação de Geocronologia U-Pb em zircão a areias re rochas do substrato do litoral do Sudoeste de Portugal: Implicações para a proveniência, dinâmica sedimentar e história geológica da região*, Universidade de Évora, supervision Pereira, M.F, Gama, C.
- (6) P Nunes, (2015) *Doutoramento em Sistemas Sustentáveis de Energia. Titulo “Enabling solar electricity with electric vehicles in future energy systems”* Orientador: Prof. Miguel Centeno Brito, dia 05 de Junho de 2015.
- (7) Sandra Gomes, 2015, *Continental Surface Water and Energy Budgets in the XX and XXI Centuries*, tese de doutoramento em Ciências Geofísicas e da Geoinformação (Meteorologia), Universidade de Lisboa, supervision Viterbo P, Miranda PMA
- (8) Zeus Guevara (2015) *Doutoramento em Sistemas Sustentáveis de Energia. Titulo “Three-level energy decoupling: energy decoupling at the primary, final and useful levels of energy use”*. Orientador Prof. João Serra, no dia 09 de Janeiro de 2015

MSc Thesis (60)

- (1) Ana Adelaide Palminha Mateus (2015) *Estudo Micropaleontológico e Magnético de uma sondagem do Quaternário do Atlântico Norte (EMEPC. Sondagem CO3; Lat. 30,2N; Long. 28,6W)*. Dissertação de Mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território (Departamento de Geologia/FCUL). Orientador – Mário Cachão; Co-Orientador – Pedro F Silva. Avaliada com 18/20 valores
- (2) **A Baptista (2015)** *Criação de um módulo de base geográfica para a gestão comercial de clientes usando serviços Google Maps*, Mestrado em Sistemas de Informação Geográfica Tecnologias e Aplicações, supervision Catita C, 11 de Dezembro de 2015.
- (3) A Silva A (2015) *Produção de biogás a partir de resíduos de espaços verdes*. MSc Thesis in Engineering Energy and Environment, supervision Santino Di Berardino, Catita, C.
- (4) Alessandro Marracini (2015) *The impact of major modes of climate variability on wave parameters in the western European coast*, tese de Mestrado em Ciências Geofísicas (Meteorologia), Universidade de Lisboa, supervision Trigo R.M.
- (5) Alexandra Amorim (2015) *Aplicação de técnicas de deteção remota na evolução da Restinga do Alfeite (Estuário do Tejo)*, tese de mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território, Departamento de Geologia FCUL, Supervision Lira C, Freitas MC
- (6) Ana Filipe Mesquita Rocha da Silva (2015) *Estudo de minerais pesados do depósito tsunamigénico de 1 de Novembro de 1755 em Alcantarilha (Portugal)*, tese de mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território, Departamento de Geologia FCUL, 110pp, Supervisors Costa P, Andrade C.
- (7) **B Rodrigues (2015)** *Desenvolvimento de um modelo de dados geoespaciais para infraestruturas de distribuição de energia elétrica*, Mestrado em Sistemas de Informação Geográfica - Tecnologias e Aplicações, Orientadora: CatitaC, 02 de Novembro de 2015.
- (8) C Ferreira (2015) *Eficiência energética de edifícios em fase de projeto: aplicação de ferramentas de simulação*, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 07 de Maio de 2015.

- (9) **C Santos** (2015) Validação do método horário simplificado – 5R1C com base em medições e simulações realizadas no software EnergyPlus, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientadora: Panão M, 06 de Novembro de 2015.
- (10) Carlos César Dias de Jesus (2015) Deslizamentos na bacia hidrográfica do Rio Grande da Pipa (Portugal): perspetivas regional e local, Dissertação de Mestrado em Geologia Aplicada, especialização em Geologia de Engenharia, FCUL, Universidade de Lisboa, 144 p. Supervisors: Marques FMSF, Sérgio Oliveira, S. (IGOT).
- (11) **D Oliveira** (2015) Optimização de centrais fotovoltaicas por algoritmo genético multi-objectivo contemplando topografia, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 18 de Novembro de 2015.
- (12) D Pereira (2015) Avaliação de Desempenho de Protótipo de Seguimento Solar Passivo Biaxial, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 28 de Julho de 2015.
- (13) **D Santos** (2015) Desagregação do Consumo Energético e Simulação Térmica Detalhada de um Grande Edifício de Serviços, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientadora: Panão M, 27 de Outubro de 2015.
- (14) D Siopa (2015) Fotoânodos 1D-ZnO preparados por métodos híbridos com aplicação em células solares. Mestrado Integrado em Engenharia da Energia e do Ambiente, Universidade de Lisboa, Orientadores: Gomes A, Lobato K.
- (15) E Almeida (2015) Modelação hidrológica de inundações urbanas baseada em dados geoespaciais de alta resolução, Mestrado: Engenharia Geográfica, Orientadora: Catita , Redweik P, 17 de Junho de 2015.
- (16) **F Carvalho** (2015) Avaliação da Viabilidade de um sistema de ventilação natural: aplicação à sala de estudo do edifício I do ISCTE-IUL, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 27 de Julho de 2015.
- (17) G Dunca (2015) Elaboração de um Barómetro da Eficiência Energética da Universidade de Lisboa, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 19 de Fevereiro de 2015.
- (18) **H Matos (2015)** Central Termoelétrica de Setúbal a Património Industrial por Reutilização Adaptativa, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 05 de Março de 2015
- (19) **I Almeida** (2015) Autoconsumo de electricidade solar em edifícios, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 10 de Setembro de 2015.
- (20) Inês Nunes (2015) Contribuição natural e antrópica para a sedimentogénese da Ribeira de Moinhos (SW Alentejano), Dissertação de Mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território, FCUL, 136 p. Supervision Freitas, MC
- (21) J Dias (2015) Numerical analysis of cross-ventilation in generic isolated building configurations, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 02 de Junho de 2015.
- (22) **J Fonseca** (2015) Modelação estatística do desempenho energético do parque habitacional português, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Panão M, 12 de Novembro de 2015.
- (23) J Oliveira (2015) Análise comparativa de métodos de transformação de coordenadas para a interoperabilidade entre data geodésicos da cartografia do IGeoE. Estágio no IGeoE sob a responsabilidade do Major Agostinho Freitas. MSc Thesis in Geographic Engineering (FCUL), supervision Antunes C, Catita C.
- (24) **J Seabra** (2015) Comparação de ferramentas de simulação térmica para o cálculo dos índices subjacentes à certificação energética nos edifícios de comércio e serviços, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientadora: Panão M, 17 de Novembro de 2015.

- (25) **J Silva (2015)** A new concept in compressed air energy storage. Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Alves JM, 27 de Fevereiro de 2015.
- (26) **João Dias (2015)** Fornecimento sedimentar por bacias de pequena dimensão: aplicação ao arco Caparica-Espichel. Mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território, Universidade de Lisboa. Supervisor: Tabora R.
- (27) **João Hermínio (2015)** Cartografia da vulnerabilidade costeira associada a galgamentos oceânicos, Mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território, Universidade de Lisboa. Supervisor: Tabora R.
- (28) **L Rebelo (2015)** Hidroponia em Ambiente Controlado: desenvolvimento de uma metodologia de análise ao desempenho produtivo e aos consumos de uma unidade de produção, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Alves JM, 10 de Dezembro de 2015.
- (29) **Luís Filipe Costa e Costa (2015)** Estudo de solo de alteração do Jurássico superior: Caracterização geotécnica e melhoramento por cal e cimento. Dissertação de Mestrado em Geologia Aplicada, especialização em Geologia de Engenharia, FCUL, Universidade de Lisboa, 205 p. Supervisor: Marques FMSF.
- (30) **M Andrade (2015)** A Parametrização das necessidades de energia para aquecimento e arrefecimento como suporte a estudos de custo-benefício, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Panão M, 27 de Julho de 2015.
- (31) **M Fernandes (2015)** Desenvolvimento de um Sistema Remoto de Monitorização e Análise de Qualidade do Ambiente Interior em Edifícios, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 11 de Novembro de 2015.
- (32) **M Milagaia (2015)** Melhoria da eficiência energética através de mecanismo de feedback: caso do consumo de energia eléctrica nas habitações, Mestrado Integrado em Engenharia da Energia e do Ambiente., Orientador: Partidário P, Panão M, 19 de Novembro de 2015.
- (33) **Maria C. M. Quintela (2015)** Aplicação das associações de Foraminíferos bentónicos na identificação de depósitos tsunamigénicos na plataforma externa (Algarve): uma avaliação preliminar, dissertação de mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território, Faculdade de Ciências, Universidade de Lisboa, supervision Fatela F and Drago T
- (34) **Maria Teresa de Oliveira Cebola (2015)** Caracterização morfodinâmica e sedimentar das praias de Santo Amaro e Paço de Arcos, Mestrado em Ciências do Mar, FCUL, 108 p. Supervisor: César Andrade.
- (35) **Mário F. B. de Oliveira (2015)** Controlos lito-estratigráficos, mineralógicos e geoquímicos da jazida de ferro de Carvalhosa (Serra de Reboredo, Torre de Moncorvo), dissertação de mestrado em Geologia Económica, Faculdade de Ciências, Universidade de Lisboa, supervision Mateus A.
- (36) **Marta S. F. Codeço (2015)** Estudo comparativo das sequências vulcânicas constituintes dos eixos de Ervidel-Roxo e Figueirinha-Albernoa (Faixa Piritosa Ibérica) e respectiva relevância na prospecção de sulfuretos maciços polimetálicos, dissertação de mestrado em Geologia Económica, Faculdade de Ciências, Universidade de Lisboa, supervision Mateus A
- (37) **N Dias (2015)** Renewable Energy Cooperative in Portugal: Electricity retailing supply process, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: BritoMC, 18 de Fevereiro de 2015.

- (38) **N Ruas** (2015) Development and Evaluation of a low-cost Dynamic Illumination Setup for Advanced Photovoltaic Modules Performance Testing, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 13 de Novembro de 2015.
- (39) **R Nunes** (2015) Desenvolvimento de um SIG para Gestão Portuária - O caso do Porto de Lisboa. 114 pp, Mestrado em Sistemas de Informação Geográfica, Supervision Antunes C, Redweik P
- (40) **P Costa** (2015) Validação de uma estrutura vetorial 3D da Carta Militar de Portugal, com recurso a Sistemas de Gestão de Dados Espaciais de acesso livre, Mestrado Engenharia Geográfica, Orientadora: Catita C, 27 de Outubro de 2015.
- (41) **P Covas** (2015) Estudo de medidas de eficiência de iluminação interior no âmbito de uma certificação energética RECS: aplicação ao Campus do ISCTE – IUL, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 30 de Julho de 2015.
- (42) **P Nunes P** (2015) Sistema espacial de apoio à seleção de locais de abrigo para petroleiros acidentados ou em perigo. MsC Thesis in Geographic Engineering (FCUL), supervision Catita C, Pacheco, B.
- (43) **P Fonseca** (2015) Avaliação do Potencial solar e análise de medidas de eficiência energética num edifício universitário, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 09 de Abril de 2015.
- (44) **P Nunes** (2015) Sistema Espacial de apoio à seleção de locais de abrigo para petroleiros acidentados ou em risco, Mestrado em Engenharia Geográfica Orientadora: Catita C, 16 de Outubro de 2015.
- (45) **P Pereira (2015)** Numerical analysis and experimental validation of pollutant dispersion for the actual urban area of Niigata city, Japan, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 03 de Março de 2015
- (46) **P Roda (2015)** Layout and modeling of a high temperature heat storage system for continuous operation of solar reforming processes, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 11 de Fevereiro de 2015.
- (47) **R Almeida** (2015) Análise de indicadores de desempenho energético para edifícios de serviços: aplicação ao campus ISCTE-IUL, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 29 de Julho de 2015.
- (48) **R Figueiredo** (2015) Potencial Solar de parques de estacionamento para carregamentos de veículos elétricos, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 12 de Outubro de 2015.
- (49) **R Gonçalves** (2015) Desempenho energético de edifícios desportivos com piscinas aquecidas, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientadores: Correia M, Panão M, 06 de Outubro de 2015.
- (50) **R Ramiro (2015)** Identificação e implementação de medidas de racionalização de energia de baixo custo em sistemas AVAC (campos LNEG-Alfragide), Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientadora: Panão M, 11 de Fevereiro de 2015.
- (51) **R Silva** (2015) Desenvolvimento de uma aplicação de exploração de informação geográfica baseada em serviços Google Maps, Mestrado Sistemas de Informação Geográfica Tecnologias e Aplicações, Orientador: Catita C, 23 de Novembro de 2015.
- (52) **Rita Valadas Magalhães** (2015) Caracterização morfodinâmica e sedimentar da praia de Carcavelos, Mestrado em Ciências do Mar, FCUL, 86 p. Supervisor: César Andrade.
- (53) **S Costa** (2015) Detecção de Defeitos em Células e Módulos Fotovoltaicos por Medidas de Termografia, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Silva JA, 25 de Novembro de 2015.
- (54) **S Dias** (2015) Os sistemas energéticos para habitação autossustentável em clima Português: simulação e análise energética, Mestrado Integrado em Engenharia da Energia e do Ambiente., Orientador: Carrilho da Graça G, 13 de Julho de 2015.

- (55)S Malta (2015) Análise económica do transporte rodoviário de mercadorias entre Portugal e Alemanha. MSc Thesis in Information Management (FCUL), supervision Telhada, J., Catita C
- (56)T Pimentel (2015) District Heating Systems: Case Study Development Using Modelica, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Carrilho da Graça G, 14 de Dezembro de 2015.
- (57)T Salgueiro (2015) Estudo de Biocombustíveis Sólidos: Importância das Cinzas para Processos de Combustão, Mestrado: Integrado em Engenharia da Energia e do Ambiente, Orientador: Brito MC, 10 de Fevereiro de 2015.
- (58)T Santos (2015) Overview of energy storage technologies for PV systems, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientadores: Amador JC, AlvesJM, 30 de Abril de 2015.
- (59)Teresa Gala (2015) Modelação analítica da erosão de praias por tempestade. Mestrado em Geologia do Ambiente, Riscos Geológicos e Ordenamento do Território, Universidade de Lisboa. Supervisor: Taborda R.
- (60)V Cruz (2015) Autoconsumo e abandono da rede em Portugal, Mestrado Integrado em Engenharia da Energia e do Ambiente, Orientador: Vallêra A, 03 de Novembro de 2015.

Other thesis

Models

Computational Applications

Bos MS and Fernandes RMS, Release of version 1.5.2 of software package Hector for the analysis of geophysical time. (<http://segal.ubi.pt/hector/>)

“Instalações piloto”

Laboratory prototypes

Black-BOX - Protótipo de aquisição *in situ* de imagens de areias marcadas com luz-UV desenvolvidos no âmbito do Projecto Moses - Equilibrium State of Crenulated Coasts (PTDC/GEO-GEO/3981/2012). Investigadora envolvida: Cristina Lira

Patents

Other deliverables

- (1) Azerêdo AC, in Machado S. (coord), Carvalho J, Mergulhão L, Martins O (2015) Carta Geológica simplificada e Património Geológico do Parque Natural das Serras de Aire e Candeeiros. Laboratório Nacional de Energia e Geologia /Instituto de Conservação da Natureza e das Florestas, Lisboa.

Projects

- [1] ASTARTE - Assessment, Strategy And Risk Reduction for Tsunamis in Europe FP7: ENV.2013.6.4-3 ENV.2013.6.4-3, Grant agreement no: 603839. From 01-11-2013 to 30-05-2017; Luis Matias coordinates de IDL participation with 80 k€ funding, Batista MA (Project Leader).
- [2] Contornitos associados com depósitos transportados em massa ao longo da margem SW Ibérica - implicações para a estabilidade de taludes e avaliação da perigosidade de ocorrência de tsunamis PTDC/GEO-GEO/4430/2012. Fundação da Faculdade de Ciências da Universidade de Lisboa, FP (FFC/FC/ULisboa), Roque C (Investigado Responsável):
- [3] EPOS-IP, “European Plate Observing System - Implementation Phase (EPOS-IP)”, funded by Horizon 2020 [2020-INFRADEV- 3-2015]. The project leader is Prof. Massimo Cocco of Istituto Nazionale di Geofisica e Vulcanologia (INGV), Italy (e18000k), Bos MS: Member of working group 10 “GNSS Data and Product”
- [4] EUPORIAS (2012-2016) European Provision Of Regional Impacts Assessments on Seasonal and Decadal Timescales, EU Project FP7 Grant 308291, 247k€ (IDL), PI: Miranda PMA.
- [5] QSECA – Quantificação e Evolução das Secas na Península Ibérica: passado, presente e futuro (2013-2015), FCT Grant PTDC/AAG-GLO/4155/2012, 174k€, PI: Gouveia C.M.
- [6] PHDROUGH – Avaliação da Predictabilidade e hibridação de Previsões sazonais de seca na Europa Ocidental (2013-2015), FCT Grant PTDC/GEO-MET/3476/2012, 174k€, PI: Pires C.
- [7] STORMEX – Mid-Latitude North Atlantic Extreme Storms Variability: Diagnosis, Modelling Dynamical Processes and Related Impacts on Iberia (2012-2015), FCT Grant PTDC/AAG-CLI/121339/2010, 30k€, PI (IDL): Trigo R.M.
- [8] ERA-CLIM2- European Re-Analysis of global CLIMate observations (2014-2016) EU Project FP7-SPACE-2013-1, 210k€, PI: Valente M.A.
- [9] FASTLOAD - Fault Activity and Seismicity Triggered by Ocean Loading in West Iberia (2013-2015), FCT Project PTDC/GEO-GEO/2860/2012, 110k€ (total), 80k€ (IDL). PI: Cabral J. (IDL)
- [10] SALSA – Sergipe, ALagoas Seismic Aquisition (2014-2016), project contracted with PETROBRAS, lead by IFREMER, 370k€. PI: Aslanian D. (IFREMER), Matias L. (IDL)
- [11] SHARE – Seamless High Resolution Atmosphere-Ocean Research (2012-2016), FCT Grant RECI/GEO-MET/0380/2012, 250k€, PI: Miranda PMA.
- [12] SMOG - Structure of Moist convection in high-resolution GNSS observations and models (2011-2015), FCT Grant PTDC/CTE-ATM/119922/2010, 65k€, PI: Miranda PMA.
- [13] MINATURA2020 (2015-2017) Developing a concept for a European minerals deposit framework, H2020-SC5-2014, lead by MinPol and including 24 partners, 2M€. PI: Tiess G. (MinPol), Mateus A. (IDL)
- [14] NewOres (2015-2017) Development of New models for the genesis of Rare Metal (W, Nb, Ta, Li) Ore deposits from the European Variscan Belt and valorization of low grade and fine grained ore and mine tailings, ERA-MIN Joint Call 2014, lead by Université de Lorraine (France), 457k€. PI: Cathelineau M. (Université de Lorraine, France), Mateus A. (IDL).
- [15] QuakeLoc-PT - Precise earthQuake Locations in mainland PorTugal and adjacent offshore (2013-2015). FCT Project PTDC/GEO-FIQ/3522/2012, 150k€ (total). PI: Custódio S. (IDL)

- [16] Shoreface morphodynamics: an integrated approach (2013-2015) PTDC/MAR-EST/3485/2012, Fundação para a Ciência e Tecnologia. 30 Junho 2013- 29 Dezembro 2015, Drago T (Investigador Responsável)
- [17] MODELINK (EXPL/GEO-GEO/0714/2013, from April 2014-April 2015): "Modeling the tectonic missing link between the active Gloria and SWIM fault systems along the (Atlantic) Eurasia-Nubia plate boundary"; Project coordinator: Filipe M. Rosas (University of Lisbon, IDL)
- [18] REGENA (PTDC /GEO-FIQ/3648/2012) - Holocene and Pleistocene recovery of geomagnetic secular variation in the North Atlantic (Azores and Cape-Verde archipelagos and Portugal mainland): Geomagnetic and volcanological implications. Instituição proponente – FFCUL. PI – Pedro F Silva. 2013 – 2015
- [19] "Paleomagnetism and U-PB geochronology of dyke and sill swarms of the west African Craton (Anti-Atlas inliers, Southern Morocco): Links to break-up of Precambrian supercontinents. Part II" Bilateral Agreement Portugal-Morocco (FCT-CNRST). Instituição proponente – FFCUL. PI – Pedro F Silva. 2015 – 2016
- [20] "GOLD" (PTDC/GEO-GEO/2446/2012) - Granites, Orogenesis, Long-term strain/stress, and Deposition of ore metals.PI - M. Francisco (Universidade de Évora). 2013 – 2015
- [21] Suscity- Sustainable Cities, Urban data driven models for creative and resourceful urban transitions (2013-2017), FCT Grant MITP-TB/CS/0026/2013; 1.2 M€ total; 90 k€ FCUL, PI: Serra JM (IDL)
- [22] SEGSOL, Projecto QREN, promotor Active Space Technologies, Actividades Aeroespaciais, S.A., (2012-2015)
- [23] SOLAR RIBBONS – Projecto QREN (ref: 2013/032111; 2013-2015), leader: spin-off SDSIL, Faculdade de Ciências da Universidade de Lisboa (FCUL) – 1.4 M€ total; 250 k€ (FCUL). PI: Vallera AM (SDSIL), PI: Serra JM (IDL)

4.