Dr. Vlad Manea

Director de Proiect

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Contact
Institutul de Geodinamica, Sabba S. Stefanescu al Academiei Romane
19-21 Jean-Louis Calderon St.,
Bucharest-37,
Romania, R-020032

tel. (4021)317.21.26
fax:(4021)317.21.20

Teme de interes in cercetare
Interesul meu in cercetare cuprinde: geodinamica numerica, mecanica placilor oceanice, magnetismul si gravimetria, vulcanismul, procesele metamorfice in zonele de subductie si monitorizarea deformatiilor crustale.

In campul geodinamicii numerice am lucrat in directia dezvoltarii de modele numerice in 2D si 3D pentru modelarea proceselor tectonica legate de unele zone de subductie ce se intalnesc in "Inelul de foc" (Mexic, Guatemala, Kamchatka, Chile). Scopul principal al activitatii mele de cercetare este in prezent concentrat in gasirea unuei interpretari pentru observatiile seismologice realizate la scara locala, regionala si globala. Prin aceaste modelari sper sa contribui la o mai buna intelegere a procesului de dinamica a placilor tectonice si a modului in care miscarea placilor tectonice si fluxul de material din manta sunt conectate, de ce si cum evolueaza procesul de convectie a mantalei terestre pe perioade mari de timp.
Starea de eforturi din placile subduse si legatura dintre aceasta si cutremurele intraslab reprezinta o alta tema de interes stiintific. Am dezvoltat scheme numerice 2D pentru calcularea acestor tipuri de eforturi ce se inregistreaza in interiorul placilor subduse, tipuri de eforturi care au fost neglijate vreme de cateva decenii. este vorba despre eforturi termo-barice prezente in placile oceanice datorita repartitie neuniforme a caldurii din timpul procesului de subductie. Prin aceste studii sper sa inteleg de ce cutremurele intraslab se produc doar la anumite adancimi si care este marimea campului de eforturi deviatorii care poate genera astfel de cutremure.
In plus, am fost involucrat in studii legate de deformatiile flexurale ale litosferei in zonele de fractura, de legatura anomaliile de gravitate si flexura litosferei.
Temele mele de interes stiintific mai sunt legate si de studiul anomaliilor gravimetrice si magnetice pentru intelegerea problemelor tectonice legate de zonele de subductie. Am folosit aceste anomalii pentru constrangerea geometriei zonelor de subductie, pentru studierea acumularii de sedimente in fosele ocenaice profunde si pentru studierea procesului de metamorfozare a mantle wedge (ex. procesele de serpentinizare)
Un alt aspect important al cercetarii este legat de vulcanismul produs de procesul de subductie. Am studiat propagarea magmei prin mantle wedge-ul convectiv folosind modelarea numerica. Astfel de modele mi-au asigurat noi constrangeri privind vascozitatea si temperatura din interiorul mantalei ce se afla sub arcurile vulcanice. De asemenea, am studiat timpul de sosire al "blob"-urilor desprinse din placa subdusa, ce calatoresc prin manta, si relatia acestora cu dezechilibrul seriilor U-Th.
Procesele metamorfice desfasurate in placile oceanice subduse reprezinta o alta tema de interes. Am cercetat procesele de deshidratare ale placilor subduse si relatiila acestora cu recent descoperitele "cutremure lente". Astfel de studii furnizeaza noi puncte de vedere asupra mecanismelor prin care se pot produce cutremurele lente.
In final dar nu in ultimul rand, o parte centrala a cercetarii stiintifice o constituie masuratorile de teren. Folosind masuratorile de GPS sau tiltmetru, am studiat procesele de deformatie legate de zonele de subductie si de limita de placi tectonice. Principalul produs al acestor studii este reprezentat printr-o mai buna intelegere a ciclului seismic si a fortelor ce actioneaza in zonele de limite de placi.

Educatie

- Postdoctoral Scholar, November 2006 - present, Centro de Geociencias, Campus UNAM, Juriquilla, advisor: Dr. Luca Ferrari;

- Postdoctoral Scholar, November 2004 - November 2006, Seismological Laboratory, Caltech (California Institute of Technology), Pasadena, USA, advisor: Dr. Mike Gurnis;
- Ph.D., September 2001 - October 21st, 2004, Instituto de Geofisica, Universidad Nacional Autonoma de Mexico, Mexico; supervisor: Dr. Vladimir Kostoglodov;
- M.Sc., 1997-1999, Faculty of Hydrotechnics, Specialization: G.I.S., Technical University of Civil Engineering, Bucharest, Romania;
- M.Sc., 1995-1996, Faculty of Civil Engineering, Specialization: Geotechnical Engineering, Technical University of Civil Engineering, Bucharest, Romania;
- B.S., 1992-1997, Faculty of Geology and Geophysics, Specialization: Geophysics, University of Bucharest, Romania;
- B.S., 1990-1995, Faculty of Hydrotechnics, Technical University of Civil Engineering, Bucharest, Romania.

Experienta in Cercetare

- Oct 2007 - present - Profesor of Geophysics (Investigador Titular A), Centro de Geociencias, Campus UNAM, Juriquilla, Queretaro, Mexico;
- Nov 2006 - present - Visiting Associate, Seismological Laboratory, Caltech, Pasadena, California, USA;
- Nov 2006 - Oct 2007 - Postoctoral Scholar, Centro de Geociencias, Campus UNAM, Juriquilla, Queretaro, Mexico;
- Nov 2004 - Nov 2006- Postoctoral Scholar, Seismological Laboratory, Caltech, Pasadena, California, USA;
- 14 Feb - 24 Feb 2005 -GPS campaign, Chiapas, Mexico; (a study for: Polochic - Montagua fault system and the contact between the North America and Caribbean Plates; continuation);
- 28 Jan-10 Feb 2004 - GPS campaign, Chiapas, Mexico; (a study for: Polochic - Montagua fault system and the contact between the North America and Caribbean Plates; continuation) ;
- 03-2 semester (Feb 2003) - Assistant Professor, Geodynamics no. 60281, UNAM, Mexico;
- 7-21 February 2003- GPS campaign, Chiapas, Mexico; (a study for: Polochic - Montagua fault system and the contact between the North America and Caribbean Plates; continuation);
- 11-25 March 2002 - oceanographic campaign on the Justo Sierra university oceanographic boat: "PMAG01-Geophysical (Magnetic and Bathymetric Survey) Study for the Submarine Mountains in the Mexican Gulf";
- August 2001: GPS campaign in Southern Mexico. (a study for: Polochic - Montagua fault system and the contact between the North America and Caribbean Plates);
- March - June 2000-ERASMUS-SOCRATES scholarship, Salzburg University, Austria. Landslide hazard assessment using statistical methods (univariate, multivariate analysis, etc.) within a GIS software package;
- September, 1999-January, 2000 - Assistant Professor, Geotechnics, University of Civil Engineering of Bucharest, Romania;
- 1999 September. GEONET project, University of Civil Engineering of Bucharest, Tempus department;
- 1996- 1997, Co-worker TEMPUS Department, Technical University of Civil Engineering, Bucharest, Romania; Applicability of G.I.S. for: Archaeological Studies, Town-Planning, Vulnerability of Ground-Water, Probability of Landslides Hazard, Palaeokarst Studies;
- 1996 - 1997, Scientific Researcher Assistant, Institute of Geodynamics, Bucharest, Romania;

Cursuri

Cursuri pentru nivel MSc si PhD

- Procesamiento y Visualizacion de Datos Geofisicos con Software libre (impreuna cu Dr. Marina Manea) - 2009-1
- Geodynamics (impreuna cu Dr. Marina Manea) - 2008-2,2009-2
- Gravimetry (impreuna cu Dr. Marina Manea) - 2008-1
- Plate tectonics (Dr. Luca Ferrari si Dra. Marina Manea) - 2008-1, 2009-1, 2010-1, 2011-1

Studenti

Studenti Actuali

PhD
din Octombrie 2010 - Mihai Pomeran, Institutul de Geodinamica "Sabba Stefanescu", Romania
Teza: "3D numerical modeling of geodynamic processes with the help of a high performance computer cluster: An application for the Vrancea seismogenic zone."

MSc
-din August 2008 - Luciano Hidalgo Rosas, Centro de Geociencias, Campus UNAM, Juriquilla, Mexico.
Teza: "La estructura termica de la zona de subduccion en Mexico Central restringida por los resultados del proyecto MASE.";

Fosti Studenti

PhD advisory
-Barcelona, 2008 - Sergio Zlotnik, Group of Geodynamics of the Lithosphere (GDL), Institute de Ciencies de la Terra "Jaume Almera", CSIC
Teza: "Numerical modeling of transient multiphase thermo-mechanical problems: application to the oceanic lithosphere.";

-Madrid, 2007 - Esperanza Munoz Salinas, Universidad Complutense de Madrid, Faculdad de Geografia e Historia, Departamento de Analisis Geografico Regional y Geografia Fisica
Teza: "Los lahares del Popocatepetl: obtencion y tratamiento de la informacion para la prevencion de riesgos.";

Experienta in Industrie

- 1999-2001 - Geotechnical Acting Chief. Tractebel Consulting Engineering, Romanian Branch.
During this period I performed the following activities:
-Geotechnical laboratory analysis for soils;
-Design of foundations for buildings, roads and railways;
-Design of retaining structures for the stabilization of slopes, embankments and cuttings;
-Stability computation for dams.
For the field geotechnical investigation I used the HYSON 100 kN LW static penetrometer manufactured by a.p.v.d.Berg -Holland. With this equipment is possible to record four independent parameters (cone tip resistance, mantle friction, pore water pressure and inclination of the well). There is also possible to take sample of soil from a certain depth in order to perform laboratory analysis.

- 1998-1999 Acting Chief Geophysicist "The Great Man Made River" Project. I.N.C. Il Nuovo Castoro Libyan Branch, Libya.

- 1997-1998 Junior Geophysicist "The Great Man Made River" Project. I.N.C. Il Nuovo Castoro Libyan Branch, Libya.
Between 1997 and 1999 I worked in Libya in Al-Saunah water field within the geophysical department. The following methods were performed:
-Electrical Log (long and short normal)-Natural Gamma
-Three arm caliper
-Four arm caliper
-Cement bond log
-Temperature/Conductivity Log
-Dual Neutron Log
-Gamma-Gamma Log
-Video Inspection (CCTV Survey).
I have experience in interpretation and processing data using geophysical software (e.q. WELLCAD, LOGCAD).
I performed the calibration tests into two test-wells every month for the radioactive methods and verifications for all the tools. I also performed the regular maintenance and repairing for all the geophysical equipment. The equipment was provided by Robertson Geologging LTD - U.K.

Conferinte

-26-31 October, 2008. UGM, Puerto Vallarta, Mexico (Convener Special Session: SE05: Geodynamics of the Mexican Subduction Zone: constraints from seismology, geochemistry and plate reconstruction)
-22-24 September, 2008. Geomod 2008 (poster), Florence, Italy
-13-18 July, 2008. Goldschmidt "From Sea to Sky", Vancouver, Canada (invited talk)
-27-30 May, 2008. AGU, Joint Assembly, Fort Lauderdale, Florida, USA (poster, Convener)
-13-18 April, 2008. EGU, Vienna, Austria (talk)
-10-14 December, 2007. AGU, Fall Meeting, San Francisco, USA (poster)
-7-10 November, 2007. Joint NSF-MARGINS and IFREE Workshop: Subduction Factory Studies in the

Izu-Bonin-Mariana Arc System: Results and future plans. Waikiki Beach Marriott, Honolulu, Hawaii.
-28 November, 2007. Seminar: "Role of low viscosity wedges and channels in the evolution of subducting systems" Institute of Earth Sciences Jaume Almera, Barcelona, Spain.
-2 November, 2007. Seminar: "Time-Space evolution of subduction systems: new insights from numerical modeling" Department of Geology and Geophysics, University of Utah, USA.
-28-31 October, 2007. GSA Denver Annual Meeting, Colorado Convention Center, USA.
-26 September, 2007. Seminar: "Subduction Systems evolution" Institute of Geodynamics, Bucharest, Romania.
-29 August, 2007. Seminar: "GeoWall: Virtual Reality in Earth Sciences" Centro de Geociencias, UNAM, Campus Juriquilla, Queretaro, Mexico.
-8-10 August, 2007. Simposio: "La conexion Chortis-Sur de Mexico en el tiempo y en el espacio. Teatro del campus Juriquilla, Queretaro, Mexico.
-18-22 June, 2007. MARGINS Workshop to integrate Subduction factory and Seismogenic Zone Studies in Central America. La Condesa hotel, Heredia, Costa Rica. (oral presentation; invited speaker)
-22-25 May, 2007. AGU, Joint Assembly, Acapulco, Mexico. (oral presentation); organizer special session T32A: "Mexican and Central American Subduction Zones: Bringing Together Seismology, Petrology, Geology, Tectonics, and Geodynamics I"
-17 May, 2007. Seminar: "Un Programa para Resolver Ecuaciones Diferenciales Parciales Generales, con Aplicaciones en Geociencias" Centro de Geociencias, UNAM, Campus Juriquilla, Mexico;
-9 May, 2007. Seminar: "Thermal Stress in Subduction Zones" Centro de Geociencias, UNAM, Campus Juriquilla, Mexico;
-28 February, 2007. Seminar: "Supercomputers in Computational Geodynamics: Case Study for the Central Mexican Subduction Zone" Centro de Geociencias, UNAM, Campus Juriquilla, Mexico;
-29 January - 2 February, 2007. State of the Arc (SOTA), Termas Puyehue, Chile.(poster presentation)
-11-15 December, 2006. AGU, Fall meeting, San Francisco, USA (poster presentation).
-29 October - 3 November, 2006, Reunion Nacional de la Union Geofisica Mexicana, Puerto Vallarta, (Jalisco, Mexico), (poster presentation);
-02-07 April 2006, EGU General Assembly, Vienna, Austria (co);
-3-7 April 2006. GSA Backbone of the Americas-Patagonia to Alaska, Mendoza, Mendoza Province, Argentina. Session No. 9; T3. Shallowing and Steepening Subduction Zones (oral presentation);
-3 February 2006. Thermal models for Southern Mexico: Towards MASE II. Dix Seismo Lab Seminar, Caltech, USA (oral presentation);
-12 January 2006. Seminar: Flat vs. steep subduction in Mexico: an insight from numerical modeling. Departamento de Geofisica, Faculdad de Ciencias Fisicas y Matematicas, Universidad de Chile. (oral presentation);
-10 January 2006. Seminar: Geodynamics of subduction zones: thermal structures, stress, slow slip, metamorphism, and volcanism. Departamento de Geofisica, Faculdad de Ciencias Fisicas y Matematicas, Universidad de Chile. (oral presentation);
-8-9 November 2005. Second Annual TO (Tectonics Observatory) Meeting (poster presentation);
-29 October 2005. First Annual MASE (MesoAmerican Subduction Experiment) Meeting (oral presentation);
-30 October - 4 November, 2005, IVth National Meeting for Earth Sciences, Puerto Vallarta, (Jalisco, Mexico), (oral presentation); organizer special session: "Geodynamics of Subduction Zones: from numerical models to seismology and potential field methods - a session in honor of Hartmut Jodicke" ;
-30 August - 3 September, 2005, Interdisciplinary Workshop on Earths Mantle Composition, Structure, and Phase Transitions. Saint Malo, France (poster presentation);
-28 August - 1 September 2005, AGU Chapman Conference on The Great Plume Debate: The Origin and Impact of LIPs and Hotspots, Ben Nevis Hotel, Fort William, Scotland (poster and oral presentation);
-19-23 June 2005, Mantle Convection Workshop, Boulder, Colorado, USA;
-24-29 April 2005, EGU General Assembly, Vienna, Austria (poster presentation);
-4 January 2005, Tectonics Observatory Subduction Seminar, Caltech, Pasadena, USA;
-13-17 December, 2004, AGU Fall Meeting, San Francisco, (poster presentation);
-31 October - 5 November 2004, 4th Reunion nacional de ciencias de la Tierra, Mision Juriquilla, Queretaro, Mexico (poster presentation);
-21-27 August 2004, International Workshop on Japan-Kamchatka-Aleutian Subduction Processes - Linkages among tectonics, seimicity, magma genesis, and eruption in volcanic arcs, Petropavlovsk-Kamchatsky, Russia (oral presentation);
-17-21 May 2004, Joint Assembly, Montreal, Canada (poster presentation);
-25-30 April 2004, EGS - AGU - EUG Joint Assembly, Nice, France (oral presentation);
-17 February 2004, Seminar: "Young and old subduction zones: what can tell us the thermal structure about the slab-mantle wedge system? Case studies: Central Mexico and Southern Kamchatka", Geosciences Center, Campus Juriquilla, Querretaro, UNAM, Mexico;
-8-12 December, 2003, AGU Fall Meeting, San Francisco, (poster presentation);
-4 December, 2003, Seminars in Earth Sciences 2003-2004, Geology Institute, UNAM, Mexico;

-17-19 November, 2003, IX Congress Division of Fluid Dynamics; Mexican Physical Society, at the Institute for Petroleum Research (IMP) in Mexico City (oral presentation);
-3-7 November, 2003, Annual Meeting, UGM, Puerto Vallarta, (Jalisco, Mexico), (oral presentation), Convenor, Special Session: "Thermal Structure, Metamorphism, Mantle Wedge and Tomography in Subduction Zones";
-23 October 2003, Seminar, Instituto de Geofisica, UNAM, Mexico;
-25 - 29 August, 2003, Penrose Conference; Plume IV: Beyond the Plume Hypothesis; Tests of the plume paradigm and alternatives; Hveragerdi, Iceland; http://www.mantleplumes.org/ (oral & poster presentation);
-13 June 2003, "PDE2D-A solver for partial differential equations and its applications for the geophysical modelling", Prof. S. Granville, Texas University, El Paso, USA and Vlad Manea, Geophysics Institute, Department of Seismology and Volcanology, Geophysics Institute, UNAM, Mexico;
-6-11 April 2003, EGS - AGU - EUG Joint Assembly, Nice, France (poster presentation);
-1-3 April, 2003, The Geological Society of America, Cordilleran Section, Puerto Vallarta (Jalisco, Mexico), (oral presentation);
-6-10 December, 2002, AGU Fall Meeting, San Francisco, (poster presentation);
-4-8 November, 2002, IIIrd National Meeting for Earth Sciences, Puerto Vallarta, (Jalisco, Mexico), (oral presentation);
-15-20 November, 1998, Japanese-Romanian Workshop on Landslide related Geohazards, Sinaia, Romania. (oral presentation);

Articole: 29

Manea, M. and Manea, V.C., 2010. 3d Visualization for Research and Teaching in Geosciences, IEEE Computer Society Press , accepted for publication, at John Wiley & Sons eds.

Manea, V.C. and Manea, M., 2010. Advanced Computing infrastructure for Research in Geodynamics, IEEE Computer Society Press , John Wiley & Sons eds.

Manea, V.C., Perez-Gussinye, M., and Manea, M., 2010. Flat-slab subduction controlled by overriding plate thickness, Unpublished, under review

Capra, L., Manea, V.C., Manea, M., and Norini, G., 2010. The importance of Digital Elevation Model resolution on granular flow simulations: a test case for Colima volcano using TITAN2D computational routine, Natural Hazards, submitted

Manea, M. and Manea, V.C., 2010. Curie point depth estimates and correlation with subduction in Mexico, Pure and Applied Geophysics, under revision

Manea, V.C. and Manea, M., 2010. Flat-slab thermal structure and evolution beneath Central Mexico, Pure and Applied Geophysics, doi 10.1007/s00024-010-0207-9

Manea, V.C., Manea, M., Leeman, W.P., and Schutt, D.L., 2009. The influence of plume head-lithosphere interaction on magmatism associated with the Yellowstone hotspot track. , Journal of Volcanology and Geothermal Research, doi: 10.1016/j.jvolgeores.2008.12.012

Johnson, E., Wallace, P., Delgado Granados, H., Manea, V.C., Kent, A., Bindeman, I., Donegan, C., 2009. Subduction-related Volatile Recycling and Magma Generation beneath Central Mexico: Insights from Melt Inclusions, Oxygen Isotopes and Geodynamic Models , Journal of Petrology, 10.1093/petrology/egp051

Gurnis, M., Turner, M., DiCaprio, L., Spasojevic, S., Müller, R.D., Boyden, J., Seton, M., Manea, V.C., and Bower, D., 2009. Global Plate Reconstructions with Continuously Closing Plates, Geochemistry, Geophysics, Geosystems, under revision

Manea, V.C. and Manea, M., 2009. Thermally induced stresses beneath the Vrancea area, Integrated research on the intermediate depth earthquake genesis within Vrancea zone, In Besutiu, L. (Ed.), Vergiliu Publishing Housem pp.172-183. ISBN 978-973-7600-59-2

Manea, V.C. and Gurnis, M., 2009. Reconstructing of Flat Slab Subduction and Detachment beneath Central Mexico, CIG-Related One-Pager,
http://geodynamics.org/archive/community/documents/onepagers

Manea, M., and Manea, V.C., 2008. On the origin of El Chichon volcano and subduction of Tehuantepec Ridge: A geodynamical perspective., Journal of Volcanology and Geothermal Research, vol. 175, pp. 459-471, doi:10.1016/j.volgeores.2008.02.028

Portnyagin, M., and Manea, V.C., 2008. Mantle temperature control on composition of arc magmas along the Central Kamchatka Depression, Geology, vol. 36, pp. 519-522

Pérez-Campos, X., Kim, Y.-H., Husker, A., Davis, P.M., Clayton, R.W., Iglesias, A., Pacheco, J.F., Singh, S.K., Manea, V.C., Gurnis, M., 2008. Horizontal subduction and truncation of the Cocos Plate beneath Central Mexico., Geophysical Research Letters, doi:10.1029/2008GL035127

Munoz-Salinas, E., Castillo-Rodriguez, M., Manea, V.C., Manea, M., Palacios, D., 2008. Lahar flow simulations using LAHARZ program: application for the Popocatepetl Volcano, Mexico., Journal of Volcanology and Geothermal Research, vol. 175, pp. 459-471, doi:10.2016/j.volgeores.2009.01.030.

Manea, V.C., and Gurnis, M., 2007. Subduction zone evolution and low viscosity wedges and channels, Earth and Planetary Science Letters, vol. 264, issues 1-2, pp. 22 – 45

Munoz-Salinas, E., Manea, V.C., Palacios, D., and Castillo-Rodriques, M., 2007. Estimation of lahar flow velocity on Popocatepetl Volcano, Mexico., Geomorphology, vol. 92, issues 1-2, pp. 91-99, doi:10.1016/j.geomorph.2007.02.011

Manea, V.C., and Manea, M., 2007. Thermal models beneath Kamchatka and the Pacific plate rejuvenation from a mantle plume impact., AGU Monograph: Volcanism and Subduction: The Kamchatka Region, eds.: Eichelberger, J., Gordeev, E., Izbekov, P., Ruppert, N., Kasahara, M., and Lees, J., Geophysical Monograph Series 172, pp. 81-94.

Manea, V.C., Manea, M., Kostoglodov, V., and Sewell, G., 2006. Intraslab seismicity and thermal stress in the subducted Cocos Plate beneath Central Mexico, Tectonophysics, vol. 420, no. 3-4, pp. 389-408

Manea, V.C., and Manea, M., 2006. The origin of modern Chiapanecan volcanic arc in southern Mexico inferredfrom thermal models, Volcanic hazards in Central America, GSA Special Paper, Rose, W.I., Bluth, G.J.S., Carr, M.J., Ewert,J.W., Patino, LC., and Vallance, J.W. vol. GSA Special Paper 412, no. ch2, pp. 27-38

Manea, V.C., Manea, M., Kostoglodov, V., and Sewell, G., 2005. Thermo-mechanical model of the mantle wedge in Central Mexican subduction zone and a blob tracing approach for the magma transport, Physics of the Earth and Planetary Interiors, vol. 149, pp. 165-186, doi:10.1016/JPEPI2004.08.024

Manea, V.C., Manea, M., Kostoglodov, V., and Sewell, G., 2005. Thermal models, magma transport, and velocity estimation beneath southern Kamchatka., Plates, Plumes and Paradigms, GSA, Foulger, G.R., Natland, J.H., Presnell, D.C., and Anderson, D.L (eds.), GSA Special paper, 388-31, pp. 517-536

Manea, M., Manea, V.C., Kostoglodov, V., and Guzmán-Speziale, M., 2005. Elastic Thickness of the Lithosphere below the Tehuantepec Ridge., Geofisica Internacional, vol. 44, no 2, pp. 157-168

Manea, M., Manea, V.C., Ferrari, L., Kostoglodov, V. and, Bandy, W., 2005. Tectonic evolution of the Tehuantepec Ridge., Earth and Planetary Science Letters, vol. 238, pp. 64-77

Franco Sánchez, S.I., Kostoglodov, V., Larson, K.M., Manea, V.C., Manea, M. and Santiago, J.A., 2005. Propagation of the 2001-2002 silent earthquake and interplate coupling in the Oaxaca subduction zone, Mexico., Earth Planets Space, vol. 57, pp. 973-985

Manea, V.C., Manea, M., Kostoglodov, V., Currie, C.A., and Sewell, G. , 2004. Thermal Structure, Coupling, and Metamorphim in the Mexican Subduction Zone beneath Guerrero, Geophysical Journal International, vol. 158, pp. 775-784

Manea, M., Manea, V.C., and Kostoglodov, V., 2003. Sediment fill of the Middle America Trench inferred from the gravity anomalies, Geofisica Internacional, vol. 42, no. 4, pp. 603-612

Kostoglodov, V., Bilham, R., Santiago, J.A.,Manea, V.C., Manea, M., and Hernandez, V., 2002. Long-baseline fluid tiltmeter for seismotectonics studies of Mexican subduction zone, Geofisica Internacional, vol. 41, no. 1, pp. 11-25

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Manea, V.C., Kostoglodov, V., Curie, C.A., Manea, M., and Wang, K., 2002. Temperature Models for the Mexican Subduction Zone, GEOS, UGM, 22, No.2, Abstract GET-22, 155.

Mortera-Gutierez, C.A., Bandy, W.L., Prol-Ledezma, R.M., Canet-Miguel, C., Cruz-Ocampo, J.C.,

Perez-Mortera, H., Pelaez-Gaviria, J.R., Pardo-Castro, G., Serrato-Diaz, G.S., Mendoza-Cervantes, K., Rodrigues-Chavez, F., Manea, M., Manea, V.C., Urrutia-Fucugauchi, J., Molina-Cruz, A., Machain-Castillo, M.L., Arellano-Torres, E., and Flores-Ruiz, J.H., 2002. Evidencia batimétrica y magnética de no existencia de volcanes marinos en el talud continental del Golfo de México enfrente de la Costa de Veracruz, GEOS, UGM, 22, No.2, Abstract GEOM-02, 223;

Manea, M., Manea, V.C., and Kostoglodov, V., 2002. Accretionary Prism in the Mexican Subduction Zone Inferred from Gravity Modeling. Eos Trans. AGU, 83(47), Fall Meet. Suppl., Abstract T62B-1304.

Manea, V.C., Kostoglodov, V., Currie, C., Manea, M., and Wang, K., 2002. Temperature Models for the Mexican Subduction Zone. Eos Trans. AGU, 83(47), Fall Meet. Suppl., Abstract T62B-1303

Mortera-Gutierez, C.A., Bandy, W.L., Prol-Ledezma, R.M., Canet-Miguel, C., Ortega-Ramirez, J.R., Urrutia-Fucugauchi, J., Perez-Mortera, H., Pelaez-Gaviria, J.R., Pardo-Castro, G., Serrato-Diaz, G.S., Mendoza-Cervantes, K., Rodrigues-Chavez, F., Manea, M., Manea, V.C., Cruz-Ocampo, J.C., Molina-Cruz, A., Machain-Castillo, M.L., Arellano-Torres, E., and Flores-Ruiz, J.H., 2002. 3D Bathymetry and Magnetic Evidence of no Existence of Volcanic Edifices on the Gulf of Mexico Continental Slope Offshore the Veracruz Coast, Mexico. Eos Trans. AGU, 83(47), Fall Meet. Suppl., Abstract V11A-1362.

Manea, M., Manea, V.C., and Kostoglodov, V., 2003. Sediment fill in the Middle America Trench inferred from gravity. Paper no. 31-12, Cordilleran Section 99th Annual 1-3, 2003, Puerto Vallarta, Jalisco

Manea, V.C., Kostoglodov, V., Manea, M., Currie, C., and Wang, K., 2003. Thermal models, coupling and metamorphism for the Mexican subduction zone beneath Guerrero. Paper no. 20-2, Cordilleran Section 99th Annual 1-3, 2003, Puerto Vallarta, Jalisco.

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Proiecte

â™¦2007-2010 - Petrogenesis ignea y dinamica de la subduccion en las etapas iniciales de evolucion de la Faja Volcanica Transmexicana (CONACyT 58373, Mexico);
â™¦2006-2009 - Creacion y desarollo de un cluster para el modelado numerico de los procesos geodinamicos (PAPIIT INI05607, UNAM, Mexico);
â™¦2005-2008 - Seismo-tectonics of Michoacan, Mexico: 20 year after the 19th of September, 1985 earthquake. (CONACyT 46064-T, UNAM, Mexico).
â™¦2005-2007 - Seismic cycle and the crust deformation in the subduction zone, Mexico. (PAPIIT, IN102105, UNAM, Mexico).
â™¦2004 -2006 - Middle American Seismic Experiment (MASE)-Caltech, USA
â™¦2001-2004 - Seismo-tectonic study of the crust deformations related with the seismic cycle in subduction zones, Mexico (DGAPA INI104801, Mexico)
â™¦2001-2004 - Seismo-tectonic study of the Guerrero seismic gap, in Central Mexico. (CONACyT 37293-T, Mexico)
â™¦2002-2005 - Seismo-tectonic study of the western boundary between the Caribbean and North American tectonic plates. (CONACyT 36449-T)
â™¦2000-2003 - Geodetic and seismic constraints of slip rheology on the Guerrero coast of Mexico (joint cooperation UNAM, Mexico - University of Colorado, USA)
â™¦2000-2001 - Interseismic and preseismic deformation monitoring along the Mexican Pacific coast (PAPIIT IN104599, UNAM, Mexico)
â™¦1998-2003 - Interseismic deformation monitoring in central Mexico, Guerrero, using high precision tiltmeter (CONACyT 27868-T, UNAM, Mexico).

Servicii

â™¦ Reviewer for Journal of Geophysical Research (JGI) - since 2008
â™¦ Reviewer for Earth Sciences and Mathematics (ESM) - since 2008
â™¦ Reviewer for Physics of the Earth and Planetary Interiors (PEPI)-since 2005
â™¦ Reviewer for AGU Monograph (PEPI)- 2006
â™¦ Reviewer for Geochemistry, Geophysics, Geosystems (G3) - since 2005
â™¦ Reviewer for Pure and Applied Geophysics - since 2010

Premii si burse

â™¦ Membru al Academiei Mexicane de Stiinte, 2011.
â™¦ Programa de Primas al DesempeÃ±o del Personal AcadÃ©mico de Tiempo Completo (PRIDE), Nivel C, Universidad Nacional AutÃ³noma de MÃ©xico, 2008.
â™¦ Programa de Apoyo a la IncorporaciÃ³n de Personal AcadÃ©mico (PAIPA), Nivel B, Universidad Nacional AutÃ³noma de MÃ©xico. 2007-2008.
â™¦DGAPA (Direccion General de Asuntos del Personal Academico), PFAMU scholarship (Programa de Fortalecimiento Academico para las Mujeres Universitarias), Subprograma: Incorporacion a la Planta Docente (Posgrados de Fisica, Matematicas e Inginerias), 2006-2008, UNAM, Mexico.
â™¦DGEP (Direccion General de Estudios de Posgrado), PhD scholarship, 2001-2004, UNAM, Mexico.
â™¦ERASMUS-SOCRATES scholarship - Landslide hazard assessment using statistical methods (univariate, multivariate analysis, etc.) within a GIS software package; March - June 2000, Salzburg University, Austria.
â™¦Merit and normal scholarship awards at the University of Bucharest, Romania given by the Romanian Goverment 1992-1997 (Undergraduate student).

Colaborari

â™¦Dr. Lucian Besutiu, Intitute of Geodynamics, Bucharest, Romania.
â™¦Dr. Vladimir Kostoglodov, Intitute of Geophysics, UNAM, Mexico;
â™¦Dr. Luca Ferrari, Geosciences Center, UNAM, Mexico;
â™¦Dr. Lucia Capra, Geosciences Center, UNAM, Mexico;
â™¦Dr. Granville Sewell, Mathematics Dept., University of Texas;
â™¦Dr. Maxim Portnyagin, GEOMAR, Kiel, Germany;
â™¦Dr. Martha Perez-Gussynie, University of London, Great Britain;
â™¦Dr. Ivan Savov, University of Manchester, Great Britain;
â™¦Dr. Esperanza Munoz-Salinas, University of Glasgow, Great Britain;
â™¦Prof. Mike Gurnis, CALTECH, Pasadena, USA;
â™¦Prof. Taras Gerya, Mineralogical Institute, ETHZ, Zurich, Switerland;
â™¦Dr. William Leeman, National Science Foundation, USA;
â™¦Dr. Dereck Shoutt, University of Wyomming, USA;
â™¦Dr. Paul Wallace, Dept. of Geological Sciences, University of Oregon, USA;
â™¦Dr. Gianluca Norini, University of Milan, Italy;

Diverse

Memberships (since)
â™¦Mexican Academy of Sciences (Academia Mexicana de Ciencias) - 2011
â™¦American Geophysical Union (AGU) - 2002
â™¦Mexican Geophysical Union (UGM) - 2001
â™¦European Geophysical Union (EGU) - 2003
â™¦Geological Society of America (GSA) -2003

Media Relations

TV interviews for public awareness in case of earthquakes in Southern California:
â™¦16 June 2005 (Telemundo - NBC)
â™¦17 June 2005 (Televisa, Univision, Canal 22),
â™¦21 June 2005 (Telemundo, Televisa, Univision, Canal 22)
TV documentaries: Natural Hazards in Southern California and the San Andreas Fault:
â™¦10 October 2005 (Telemundo- NBC)
TV interviews related with the M7.6 (9 October 2005) Pakistan earthquake (Balakot):
â™¦11 October 2005 (NBC)
TV interviews
â™¦7 December 2005 (Univision)
â™¦9 December 2005 (Telefutura)
Computer Skills

â™¦-Operating systems: Windows 9x, NT, XP, 2000, Linux,
â™¦-programming languages: VISUAL BASIC, C/C++, Fortran, MPI
â™¦-Finite element programs: PDE2D, ANSYS, FEMAP, CitComS
â™¦-Graphical software: AutoCAD, AXUM, CorelDRAW, GMT, OpenDX
â™¦-GIS software: IDRISI, ArcView, ArcInfo.
â™¦-Potential field Modelling: MagPick, GM-SYS, Mirone
â™¦-Others: Surfer, Origin, Matlab, Mathcad

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Dr. Vlad Manea