

ADDENDA AÑO 1995

1445 Hickey-Vargas, R., Abdollahi, M. J., **Parada, M.A.**, López-Escobar, L., and Frey, F. 1995. Crustal xenoliths from Calbuco Volcano, Andean Southern Volcanic Zone: Implications for crustal composition and magma-crust interaction. *Contribution to Mineralogy and Petrology*, vol. 119, 331-344.

1446 López-Escobar, L., **Parada, M.A.**, Hickey-Vargas, R.L., Frey, F., Kempton, P.D. and Moreno, H. 1995. Calbuco Volcano and minor eruptive centres distributed along the Liquiñe-Ofqui fault zone, Chile: contrasting origin of andesitic and basaltic magma in the Southern Volcanic Zone of the Andes. *Contribution to Mineralogy and Petrology*, vol. 119, 345-361.

ADDENDA AÑO 1996

1447 Pankhurst, R.J., Millar, I. and **Hervé, F.** 1996. Permo-Carboniferous U-Pb age for part of the Guanta Unit of the Elqui-Limarí, Batholith at Río del Tránsito, Northern Chile. *Revista Geológica de Chile*, vol. 23, N°1, 35-42.

1448 Corvalán, J. and **Hervé, F.** 1996. Geological Origin of Chile. In: *Large Dams in Chile*. Chilean Committee on Large Dams (Eds.), 33-44.

1449 **Hervé, F.**, Lobato, J., Ugalde, I. and Pankhurst, R.J. 1996. The Geology of Cape Dubouzet, northern Antarctic Península: continental basement to the Trinity Península Group? *Antarctic Science*, vol. 8, N°4, 407-414.

1450 Ruegg, J.C., Campos, R., Armijo, R., Barrientos, S., Briole, R. y **Thiele, R.**,

Arancibia, M. Cañuta, J. Duquesnoy, T. Chang, M. Lazo, D. Lyon-Caen, H. Ortlieb, L. Rossignol, J.C. and Serrurier, L. 1996. The Mw=8.1 Antofagasta (North Chile) Earthquake of July 30, 1995, First results from teleseismic and geodetic data. *Geophysical Research Letters*, vol. 23, N° 9, 917-920.

CONTRIBUCIONES Año 1998

1451 **Aguirre, L.**, Dominguez, S., Morata, D. and Wittke, O. 1998. An occurrence of tobermorite in Tertiary basalts from Patagonia, Chile. *The Canadian Mineralogist*, vol. 36, 1149-1155.

1452 **Cembrano, J.**, Arancibia, G., Hervé, F., Sanhueza, A., Reynolds, P. and Zentilli, M., 1998. New time for andean intra-arc deformation north of the Nazca-south America-Antarctica triple junction. (Abstract) *Actas X Congreso Latinoamericano de Geología*, Buenos Aires, vol. II, 156.

1453 Demant, A., Belmar, M., **Hervé, F.**, Pankhurst, R.J., et Suárez, M. 1998. *Pétrologie et géochimie des basaltes de Murta: une éruption sous-glaciaire dans les Andes patagoniennes (46° lat. S), Chili. Relation avec la subduction de la ride du Chili*. *C. R. Acad. Sci. Paris*, vol. 327, 795-801.

1454 Demant, A., Münch, P., Romeuf, N. and **Morata, D.** 1998. Distribution and chemistry of secondary minerals (zeolites and clay minerals) from hole 917A, Leg 152, SE Greenland margin. In: Saunders, A.D., Larsen, H.C. and Wise, S. (Eds.). *Proc. OPD, Sci. Results*, vol. 152, 417-424.

- 1455 Domínguez, S. y **Morata, D.** 1998. Estudio analítico de los materiales del dolmen del "Cerro de la Corona". Técnicas experimentales y su aplicación a los estudios arqueológicos. In "El Dolmen del Cerro de la Corona de Totalán. Contribución al estudio de la formación económica social tribal en la Axarquía de Málaga" (Ed. A. Recio Ruiz *et al.*), Serv. de Publicaciones, cap. 4.
- 1456 Fang, Z.-j., Boucot, A., Covacevich, V. and **Hervé F.** 1998. Discovery of Late Triassic fossils in the Chonos Metamorphic Complex, Southern Chile. *Revista Geológica de Chile*, vol. 25, Nº2, 165-173.
- 1457 Feraud, G., **Aguirre, L.**, Vergara, M., Morata, D., and Robinson, D. 1998. $^{40}\text{Ar}/^{39}\text{Ar}$ data on primary and secondary minerals of a volcanic series affected by burial metamorphism: example of a Cretaceous Andean extensional basin. *Mineralogical Magazine*, vol. 62, 444-445.
- 1458 **Hervé, F.** 1998. Late Triassic rocks in the subduction complex of Aysén, southern Chile. Special Abstracts Issue Gondwana 10: Event Stratigraphy of Gondwana, *Journal of African Earth Sciences*, 224.
- 1459 **Hervé, F.**, Aguirre, L., Godoy, E., Massone, H.-J., Morata, D., Pankhurst, R.J., Ramírez, E., Sepúlveda, V. y A. Willner. 1998. Nuevos antecedentes acerca de la edad y las condiciones P-T de los Complejos Metamórficos en Aysén, Chile. X Congreso Latinoamericano de Geología, Buenos Aires, Actas, vol. III, 134-137.
- 1460 Hildreth, E., Singer, B., Godoy, E. and **Munizaga, F.** 1998. The age and constitution of Cerro Campanario, a mafic stratovolcano in the Andes of Central Chile. *Revista Geológica de Chile*, vol. 25, Nº1, 17-26.
- 1461 Koukarsky, M., **Munizaga, F.** y Brodtkorb, A. 1998. Nuevas edades K-Ar de las rocas alteradas de paramillos Sur y Norte. Interpretación de los resultados. (Resumen), X Congreso Latinoamericano de Geología, Buenos Aires, Actas, vol. III, 220-225.
- 1462 López, A., Nieto, F. and **Morata, D.** 1998. Metamorphic evolution from diagenesis to epizone in Cambrian formations from NW Zafra (Ossa Morena Zone, SW Spain), *Neues Jahrbuch für Mineralogie*, vol. 174, 131-157.
- 1463 Massone, H.J., Medenbach, O., Willner, A., Muñoz, V. and **Hervé, F.** 1998. Zussmanite in the late paleozoic metamorphic complex of Southern Chile. *Mineralogical Magazine*, vol. 62, Nº 6, 869-876.
- 1464 **Munizaga, F.**, Ruiz, J. y C. Freidier 1998. Isótopos de Os y la fuente del Cu en yacimientos tipo estratoligados (mantos) cupríferos de Chile. (Resumen), X Congreso Latinoamericano de Geología, Buenos Aires, Actas, vol. III, 226.
- 1465 Pérez, M., Domínguez, S., **Morata, D.** y Ramos, J., 1998. La industria lítica pulimentada en la Prehistoria reciente de la banda atlántica de Cádiz. Estudio de áreas fuente y relaciones entre litología y yacimientos. *Cuaternario y Geomorfología*, vol. 12, 57-67.
- 1466 Ramos, J., Domínguez, S., **Morata, D.**, Pérez, M., Montañés, M., Castañeda, V., Herrero, N. y García, M.E. 1998.

Aplicación de las técnicas geoarqueológicas en el estudio del proceso histórico entre el V y III milenios a.n.e. en la Comarca de Janda (Cádiz). Trabajos de Prehistoria, vol. 55, N° 2, 163-176.

1467 Sanhueza, A., Nédelec, A., **Cembrano, J.**, Hervé, F. y Arancibia, G. 1998. Mecanismos de emplazamiento contrastantes durante el Cretácico y el Mio-Plioceno en el Batolito Norpatagónico, Andes del Sur. (Resumen) X Congreso Latinoamericano de Geología, Buenos Aires, Actas, vol. II, 139.

1468 **Thiele, R.**, Elgueta, S., Rebolledo, S., Moreno, H., Lahsen, A. y Petit-Breuth, M. Eugenia. 1998. Evolución geológica geomorfológica cuaternaria del tramo superior del Valle del Río Laja. Revista Geológica de Chile, vol.25, N°2, 229-253.

Año 1999

1469 **Aguirre, L.**, Feraud, G., Morata, D., Vergara, M. and Robinson, D. 1999. Time interval between volcanism and burial metamorphism and rate of basin subsidence in a Cretaceous Andean extensional setting. Tectonophysics, vol. 313, 433-447.

1470 Aifa, T., Lefort, J.P. and **Hervé, F.** 1999. Discrimination between the various AMS plunges for the location of magma chambers beneath the doleritic dykes of Magdalena Island, Southern Chile. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 8-12

1471 Arancibia, G., **Cembrano, J.**, and Lavenu, A. 1999. Transpresión dextral distribuida en la Zona de Falla Liquiñe-Ofqui, región de Aysén (44° a 45° lat. S). Revista Geológica de Chile, vol. 26, N°1, 3-21.

1472 **Charrier, R.**, Hérail, G., Flynn, J.J., Riquelme, R., García, M., Croft, D. and Wyss, A.R. 1999. Opposite thrust-vergencies in the Precordillera and Western Cordillera in Northern Chile and structurally linked Cenozoic paleoenvironmental evolution. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 155-158.

1473 Comte, C., Dorbath, L., Pontoise, B., Pardo, M., Monfret, T., Haessler, H., Hello, Y., Join, Y., and **Lavenu, A.** 1999. The Wadati-Benioff zone around Copiapo, northern Chile using inland and off-shore local networks: preliminary results. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 180-183.

1474 Delfaud, J., Sabrier, R., Baudino, R., **Lavenu, A.** and Marocco, R. 1999. Reconstitution des étapes de la surrection des Andes d'Equateur à partir de l'interpretation des minéraux argileux contenus dans les bassins intramontagneux (Miocène à Actuel). Bull. Societé Géologique de France, vol. 170, N°1, 13-23.

1475 Dietrich, A., Lehmann, B., Wallianos, A., Traxel, K., and **Palacios, C.** 1999. Magma mixing in Bolivian tin porphyries. Naturwissenschaften, vol. 86, 40-43.

1476 **Elgueta, S.**, Charrier, R., Aguirre, R., Kieffer, G. and Vatin-Perignon, N.

1999. Volcanogenic sedimentation model for the Miocene Farellones Formation, Andes Cordillera, Central Chile. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 228-231.
- 1477 Flynn, J.J., **Charrier, R.**, Hérail, G., Croft, D. and A.R. Wyss. 1999. The first Cenozoic mammal fauna from the Chilean Altiplano. Actas con resúmenes, I Congr. Internacional de Evolución Neotropical del Cenozoico, La Paz., 23.
- 1478 García, M., **Hérail, G.** and R. Charrier. 1999. Age and structure of the Oxaya Anticline: a major feature of the Miocene compressive structures of northernmost Chile. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 249-252.
- 1479 **Hérail, G.**, Palacios, C., Orellana, R., Townley, B. Lahsen, A. and Parada, M.A. 1999. Morphologic evolution of gold grains versus distance to the source in recent sediments at the Las Palmas district, Central Chile: an exploration tool. Revista Comunicaciones N°50, (Edición Especial: Ed. V. Maksaev), 21-26.
- 1480 **Hérail, G.**, Palacios, C., Orellana, R., Townley, B. Lahsen, A. and Parada, M.A. 1999. Morphologic evolution of gold nuggets in different climatic terrains. Revista Comunicaciones N°50, (Edición Especial: Ed. V. Maksaev), 33-38.
- 1481 Hernández, A.; Jébrak, M.; Higuera, P.; Oyarzun, R.; **Morata, D.** and Munhá, J. 1999. The Almadén mercury mining district, Spain. Mineralium Deposita, vol. 34, 539-548.
- 1482 Hernández, T., **Townley, B.**, Palacios, C. and Maksaev, V. 1999. Geology and Geochemistry of the Colliguay gold district, Central Coastal Cordillera, Chile. Revista Comunicaciones N°50, (Edición Especial: Ed. V. Maksaev), 91-96.
- 1483 **Hervé, F.**, 1999. El tiempo en un Geólogo. Anales de la Universidad de Chile, VI Serie, N°9, 13-19.
- 1484 **Hervé, F.**, Aguirre, L., Sepúlveda, V. and Morata, D. 1999. Contrasting geochemistry and metamorphism of pillow basalts in metamorphic complexes from Aysen, S. Chile. Journal of South American Earth Science, vol. 12, N°4, 379-388.
- 1485 **Hervé, F.**, Fanning, M., Bradshaw, J., Bradshaw, M. and Lacassie, J.P. 1999. Late Permian Shrimp U-Pb detrital zircon ages constrain the age of accretion of oceanic basalts to the Gondwana margin at the Madre de Dios Archipelago, Southern Chile. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 327-328.
- 1486 **Hervé, F.**, Prior, D., López, G., Ramos, V., Rapalini, A., Thomson, S., Lacassie, J.P. and Fanning, M. 1999. Mesozoic blueschists from Diego de Almagro, Southern Chile. II South American Symposium on Isotope Geology, Córdoba, Actas, 318-321.
- 1487 Higuera, P., Oyarzún, R., **Morata, D.** and Munhá, J. 1999. The largest mercury anomaly on earth (Almadén, Spain): a mantle-derived feature?. Geogaceta, vol. 25, 103-106.
- 1488 Koukharsky, M., **Munizaga, F.**, Leal, P., Correa, M.J. and M.K. Brodtkorb,

- M.K. 1999. New K-Ar ages in the Ambargasta and north of Cordoba ranges, Argentina. (Resumen). II Simposio Sudamericano de Geología Isotópica, Córdoba, Actas, 76-77.
- 1489 Lara, L., Moreno, H., and **Lavenu, A.** 1999. Volcanism and tectonics of the Pleistocene-Holocene volcanic arc, southern Andes (40.5°-41.5°S). IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 417-421.
- 1490 **Lavenu, A.** and J. Cembrano. 1999. Compressional and transpressional stress pattern for the Pliocene and Quaternary (Andes of central and southern Chile). *Journal of Structural Geology*, vol. 21, 1669-1691.
- 1491 **Lavenu, A.**, and Cembrano, J. 1999. Estados de esfuerzo compresivo plioceno y compresivo-transpresivo pleistoceno, Andes del sur, Chile (38° y 42°30'S). *Revista Geológica de Chile*, vol. 26, N°1, 67-87.
- 1492 **Lavenu, A.**, Marquardt, C., Comte, D., Pardo, M., Ortlieb, L. and Monfret, T. 1999. Quaternary extensional deformation and recent vertical motion along the Chilean coast (between 23°S and 47°S). IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 424-427.
- 1493 Lefort, J.P., Aifa, T. and **Hervé, F.** 1999. Competition between magma flow and subduction related stresses in a doleritic dyke complex located close to the subduction of the Chile ridge (Patagonia). An AMS and structural study. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 428-432.
- 1494 Marquardt, C., and **Lavenu, A.** 1999. Quaternary brittle deformation in the Caldera area, northern Chile (27°S), IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 476-481.
- 1495 Marquardt, C., Ortlieb, L., **Lavenu, A.**, and Guzman, N. 1999. Recent vertical motion and Quaternary marine terraces in the Caldera area, northern Chile (27°S). IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 482-486.
- 1496 Massone, H.-J., Hufman, L., Duhart, P., **Hervé, F.** and Willner, A.P. 1999. New insights into the structure of the Paleozoic/Mesozoic accretionary wedge complex of the coastal Cordillera of Central and Southern Chile. IV International Symposium Andean Geodynamics, Göttingen, , Extended Abstracts Volume, 492-495.
- 1497 Massone, H.-J., Mohnen, J.-U., Klaedtke, H.-G., Kleusberg, A. and **Hervé, F.** 1999. Exploration of the Northern part of the Southern Patagonian Batholith, Southern Chile, combining spectral and hyperspectral satellite data with ground thruthing methods. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 496-498.
- 1498 **Morata, D.**, Aguirre, L., OYARZUN, M. and Vergara, M. 1999. Geochemistry of Triassic volcanic rocks from the coastal range, central Chile. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 519-522.

- 1499 Muñoz, N. and **R. Charrier**. 1999. Interaction between the basement and the cover, Salar de Atacama basin, Andes, Northern Chile. Thrust Tectonics Conference, Royal Holloway, University of London, Actas 278-281.
- 1500 **Palacios, C.**, Hérail, G., Rivas, P., Sepúlveda, F., Townley, B., Maksaev, V., Lahsen, A. and Parada, M.A. 1999. Geochemistry of gold grains in the Cerro Casale porphyry gold deposit, Maricunga Belt, Northern Chile. Revista Comunicaciones N°50, (Edición Especial: Ed. V. Maksaev), 43-48.
- 1501 **Palacios, C.**, Hérail, G., Rivas, P., Sepúlveda, F., Townley, B., Maksaev, V., Lahsen, A. and Parada, M.A. 1999. Geochemistry of gold crystals in epithermal gold porphyry and gold-rich copper porphyry deposits: a discrimination model. Revista Comunicaciones N°50, (Edición Especial: Ed. V. Maksaev), 65-70.
- 1502 **Palacios, C.**, Sepúlveda, F., Parseval, P., Hérail, G., Maksaev, V., Townley, B., Lahsen, A. and Parada, M.A. 1999. Vertical zonation of copper and silver in gold crystals at the Cerro Casale gold porphyry deposit, Maricunga Belt, Northern Chile. Revista Comunicaciones N°50, (Edición Especial: Ed. V. Maksaev), 77-80.
- 1503 **Palacios, C.**, Ulloa, C., Sepúlveda, F., Maksaev, V., Hérail, G., Townley, B., Lahsen, A. and Parada, M.A. 1999. Morphological and chemical characteristics of gold grains: methodologic improvements for gold-bearing exploration in active continental margins. Revista Comunicaciones N° 50, (Edición Especial: Ed. V. Maksaev), 97-100.
- 1504 Pankhurst, R.J., Weaver, S.D., **Hervé, F.** and Larrondo, P. 1999. Mesozoic-Cenozoic evolution of the North Patagonian batholith in Aysén, southern Chile. Journal of the Geological Society, London, vol. 156, 673-694.
- 1505 **Parada, M.A.** and Larrondo, P. 1999. Thermochronology of the Lower Cretaceous Caleu Pluton in the Coast Range of central Chile: Tectono-stratigraphic implications. IV Actas International Symposium on Andean Geodynamic, Göttingen, Extended Abstracts Volume, 563-566.
- 1506 **Parada, M.A.**, Lahsen, A. and Palacios, C. 1999. The Miocene plutonic event of the Patagonian Batholith at 44°30'S: thermochronological evidence on magma generation as a consequence of changes in steepening of the geothermal gradients during rapid uplift-erosion. (Expanded Abstract), IV Hutton Symposium on the Origin of Granites and Related Rocks, Lerrmont-Ferrand, Actas, 175.
- 1507 **Parada, M.A.**, Nyström, J.O., and Levi, B. 1999. Multiple sources for the Coastal Batholith of central Chile (31°-34°S): geochemical and Sr-Nd isotopic evidence, and tectonic implications. Lithos, vol. 46, 505-521.
- 1508 Pimpirev, C., Miller, H. and **Hervé, F.** 1999. Preliminary results on the lithofacies and palaeoenvironmental interpretation of the Paleozoic turbidite sequence in Chonos Archipelago, Southern Chile. Revista Comunicaciones, N°48-49, 3-12.

- 1509 **Pinto, L.**, Hérail, G. and Charrier, R. 1999. Sedimentary register of the Cenozoic deformation of the western border of the Altiplano in the Northern Chile (Region of Tarapaca, 19°00'-19°30'). IV International Symposium on Andean Geodynamic, Göttingen, Extended Abstracts Volume, 593-596.
- 1510 Rapalini, A.E., **Hervé, F.** and Ramos, V. 1999. Preliminary paleomagnetic evidence for a very large counterclockwise rotation of the Madre de Dios Archipelago, Southern Chile. IV International Symposium Andean Geodynamics, Göttingen, Extended Abstract Volume, 610-61
- 1511 Rosendaal, A., Scheepers, R., Gresse, P.G. and **Le Roux, J. P.** 1999. Neoproterozoic to Early Cambrian crustal evolution of the Pan-African Saldania Belt, South Africa. Precambrian Research, vol. 97, 303-323.
- 1512 Ruiz, J. and **Munizaga, F.** 1999. Isotopic evidence of evolving crust and mantle contributions for base metal metallogenesis in convergent margins. (Resumen). II Simposio Sudamericano de Geología Isotópica, Córdoba, Actas, 495.
- 1513 Sial, A.N., Toselli, A.J., Saavedra, J., **Parada, M.A.**, and Ferreira, V.P. 1999. Magmatic epidote-bearing granitoids in South America: Borborema province, NE Brazil, Pampean Ranges, NW Argentina, and pre-Andean magmatic arcs in Chile. Lithos, vol. 46, 367-392.
- 1514 Tassinari, C., **Munizaga, F.**, and Duhart, P. 1999. Nd and Sr isotopic composition of the North Patagonian Batholith in Puerto Montt-Palena area (41°-43°45'S), Southern Chile. (Resumen), II Simposio Sudamericano de Geología Isotópica, Córdoba, Actas, 276-277.
- 1515 Thomson, S.N., **Hervé, F.**, Brix, M.R. and Stöckhert, B. 1999. Fission-track thermochronology of the Southern Chilean Andes (42°S to 48°S). IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 754-757
- 1516 Thomson, S.N., **Hervé, F.**, Brix, M.R. and Stöckhert, B. 1999. Fission-track thermochronology of the Southern Chilean Andes (42°S to 48°S). IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 754-757.
- 1517 **Townley, B.**, 1999. Galena lead isotope characterization from ore deposits of the Aysen region, southern Chile: Metallogenic implicatios. IV International Symposium on Andean Geodynamics, Göttingen, Extended Abstracts Volume, 764-767.
- 1518 **Townley, B.**, MaksaeV, V., Palacios, C., Lahsen, A. and Parada, M.A. 1999. Base and precious metals distribution in the mainland Chilean Patagonia: Exploration potential. Revista Comunicaciones N°50, (Edición Especial: Ed. V. MaksaeV), 81-86.
- 1519 **Townley, B.**, and Palacios, C., Hurtado, R. and Jorquera, R. 1999. Gold exploration in the Antena district, Central Coastal Cordillera, Chile: partial extraction techniques. Revista Comunicaciones N°50, (Edición Especial: Ed. V. MaksaeV), 109-116.

- 1520 **Vergara, M.**, Morata, D., Villarroel, R., Nystrom, J. and Aguirre, L. 1999. 40Ar/39Ar ages, very low-grade metamorphism and geochemistry of the volcanic rocks from "Cerro El Abanico", Santiago Andean Cordillera (33°30'S-70°30'-70°25' IV International Symposium Andean Geodynamics, Göttingen, Extended Abstracts Volume, 785-788.
- 1521 **Vergara, M.**, Morata, D., Hickey-Vargas, R-M., López-Escobar, L. and Beccar, I 1999. Tertiary tholeiitic volcanism in the Colbún area, Linares Precordillera, central Chile (35°35'-36°S). *Revista Geológica de Chile*, vol. 26, N°1, 23-41.
- 1522 Willner, A., Massonne H-J. and **Hervé, F.** 1999. Comparison of the Ptd-Evolution of HP/LT Metamorphic Rocks Ocurring in the South Shetland Islands and Along the Coastal Cordillera of Chile. (Abstract), VIII International Symposium on Antarctic Earth Sciences, Wellington, Programme and Abstracts, 320.
- Año 2000**
- 1523 **Aguirre, L.**, Robinson, D., Bevins, R.E., Morata, D., Vergara, M., Fonseca, E. and Carrasco, J. 2000. A low-grade metamorphic model for the Miocene volcanism in the Andes of Central Chile. *New Zealand Journal of Geology and Geophysics*, vol. 43, 83-93.
- 1524 Bahlburg, H., Moya, C., Zimmermann, U., Bock, B. and **Hervé, F.** (2000). Paleozoic Plate Tectonic evolution of the western Gondwana margin in northern Chile and northwestern Argentina. *Zeitschrift für Angewandte Geologie*, 1, 345-353.
- 1525 Beck, Jr., M., Burmester, R., **Cembrano, J.**, Drake, R., García, A., Hervé, F., Munizaga, F. (2000). Paleomagnetism of the North Patagonian batholith, southern Chile. An exercise in shape analysis. *Tectonophysics*, vol. 326, 185-202.
- 1526 **Cembrano, J.**, Schermer, E., Sanhueza, A., and Lavenu, A. 2000. Contrasting nature of deformation along an intra-arc shear zone, the Liquiñe-Ofqui fault Zone, southern Chilean Andes. *Tectonophysics*, vol. 319, 129-149.
- 1527 Domínguez-Bella, S.; Pérez, M. and **Morata, D.** (2000). Mineralogical and petrological characterization of polished lithic material from La Viña-Cantarranas Neolithic/Aeneolithic site (Puerto Santa María, Cádiz, Spain). *Krystallinikum*, 26, 57-65.
- 1528 Goguitchaichvili, A., Chauvin, A., **Roperch, P.**, Prévot, M., Aguirre, L. and M. Vergara. 2000. Paleomagnetism of the Miocene Farellones formation (Chile). *Geophysical Journal International*, vol. 140, 357-373.
- 1529 Higuera, P.; Munhá, J.; Oyarzún, R. and **Morata, D.** (2000). Palaeozoic magmatic-related hydrothermal activity in the Almadén syncline, Spain: a long-lasting Silurian to Devonian process? *Institution of Mining and Metallurgy-Transactions, Applied Earth Science-Section B*, Vol 109, B199-202.
- 1530 Higuera, P., Gervilla, F., and **Morata, D.** (2000). Las espinelas cromíferas como indicadores petrogenéticos en las rocas magmáticas del sinclinal de Almadén. *Boletín de la Sociedad Española de Mineralogía*, 23, 107-120.

- 1531 Kurt, K., Hiatt, E., Renac, C., Durocher, K., Holk, G. and **Deckart, K.** (2000). Diagenetic fluids in paleo and meso-proterozoic sedimentary basins and their implications for long protracted fluid histories. In: K. Lyser (ed.): Tracing fluid histories of sedimentary basins Mineralogical Society of Canada Short Course Series, 29, 264-302.
- 1532 Lehmann, B., Dietrich, A., Heinhorst, J., Métrich, N., Mosbah, M., **Palacios, C.** Schneider, H-J., Wallianos, A., Webster, J. and Winkelmann, L. 2000. Boron in the Bolivian tin belt. *Mineralium Deposita*, vol. 35, 223-232.
- 1533 Lehmann, B., Dietrich, A., Wallianos, A., Oyarzún, J., **Palacios, C.M.**, Riera, K.C., and Townley, B.K. (2000). Metallogenic model for porphyry systems in the Central Andes. *Zeitschrift für Angewandte Geologie*, I, 179-186.
- 1534 **Le Roux, J.P.**, Elgueta, S. 2000. Sedimentologic development of a Late Oligocene-miocene forearc embayment, Valdivia Basin Complex, southern Chile. *Sedimentary Geology*, vol. 130, 27-44.
- 1535 **Le Roux, J.P.**, Tavares Correa, C., Alaysa, F. (2000). Sedimentology of the Rímac-Chillón alluvial fan at Lima, Peru, as related to Plio-Pleistocene sea-level changes, glacial cycles and tectonics. *South American Earth Sciences*, 13, 499-510.
- 1536 **Martinod, J.**, Hatzfeld, D., Brun, J.P. Davy, P. and P. Gautier. 2000. Continental collision, gravity spreading and kinematics of Aegea and Anatolia. *Tectonics*, vol. 19, N°2, 290-299.
- 1537 Mathur, R., Ruíz, J., **Munizaga, F.** 2000. Relationship between copper tonnage of Chilean base-metal porphyry deposits and Os isotope ratios. *Geology*, vol. 28, N° 6, 555-558.
- 1538 **Maksaev, V.**, and Zentilli, M. (2000). Fision track thermochronology of the Domeyko Cordillera, northern Chile: Implications for Andean Tectonics and Porphyry Copper Metallogenesis. *Exploration and Mining Geology*, 8, 65-89.
- 1539 **Morata, D.;** Aguirre, L.; Oyarzún, M. and Vergara, M. (2000). Crustal contribution in the genesis of the bimodal Triassic volcanism from the Coastal Range, central Chile. *Revista Geológica de Chile*, 27, 83-98.
- 1540 **Parada, M.A.**, Lahsen, A. and Palacios, C. (2000). The Miocene plutonic event of the Patagonian Batholith at 44°30'S. Thermochronologic and geobarometric evidence for melting of a rapidly exhumed lower crust. *Transaction of the Royal Society of Edinburgh: Earth Sciences*, 91-169-179.
- 1541 **Roperch, P.**, Fornari, M., Hérail, G. and Parraguez, G. 2000. Tectonic rotations within the Bolivian Altiplano: Implications for the geodynamic evolution of the central Andes during the late Tertiary. *Journal of Geophysical Research*, vol. 105, N°B1, 795-820.
- 1542 Scheuber, E., **Charrier, R.**, Gonzalez, G., Klotz, J., Reuther, K.-D. y Reutter, K.-J., 2000. Crustal evolution of the Southern Central Andes (20°S-26°S) since the Jurassic. *Zeitschrift für Angewandte Geologie*, 1, 323-329.
- 1543 Sue, C., J. **Martinod, P.** Tricart, J.F. Gamond, F. Thouvenot, J. Fréchet, D.

Marinier and J.P. (2000). Active deformation measured using GPS in the internal nappes of Western Alps. *Tectonophysics*, 320, 17-29.

1544 **Townley, B.,** Maksaev, V., Palacios, C., Lahsen, A., and Parada, M.A. 2000. Base and precious metals geochemistry of rock units of the mainland Aysen region, Chilean Patagonia. *Journal of Geochemical Exploration*, vol. 68, 21-46.

1545 **Townley, B.** and Palacios, C.M. (2000). Ore depositists and Metallogenesis of Mainland Patagonia, Aysén, Chile. *Exploration and Mining Geology, Sp. Vol. Latin American Ore*

Deposits. Canadian Institut of Mining. Metallurgy and Petroleum., 8, 1-2, 91-108.

1546 **Vargas, G.,** Ortlieb, L., and Rutllant, J. (2000). Aluviones históricos en Antofagasta y su relación con eventos el Niño/Oscilación del Sur. *Revista Geológica de Chile*, vol. 27, 157-176.

1547 Willner, A.P., **Hervé, F.** and Massone, H.-J. 2000. Mineral Chemistry and Pressure-Temperature Evolution of Two Contrasting High-pressure-Low-Temperature Belts in the Chonos Archipelago, Southern Chile. *Journal of Petrology*, vol. 41, N°3, 309-330.