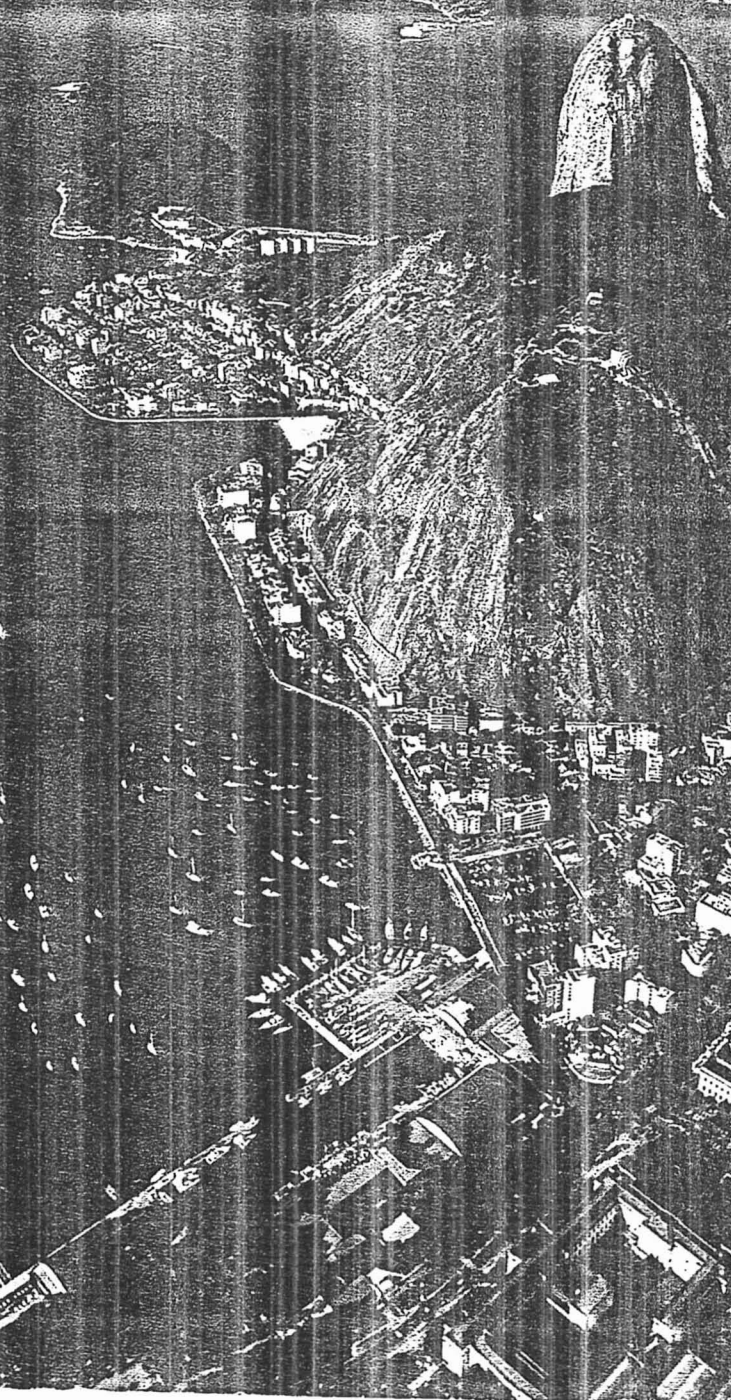




31st INTERNATIONAL GEOLOGICAL CONGRESS

Rio de Janeiro - Brazil
August 6 - 17 - 2000



CONGRESS PROGRAM

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Moraes, Renato; Goia, Simone Maria Costa Lima; Fuck, Reinhardt Adolfo; Pimentel, Márcio Martins - RELATIONSHIPS BETWEEN THE BARRO ALTO COMPLEX AND JUSCELANDIA SEQUENCE MAGMATISM AND METAMORPHISM CONSTRAINED BY SM-ND ISOTOPIC DATA
Date: 09/08/00 - Booth F10

Ordonez, Oswaldo Carmona; Pimentel, Márcio Martins - ND-SR ISOTOPIC CHARACTERISTICS OF THE MAGMATISM OF THE COLOMBIAN ANDES
Date: 09/08/00 - Booth E9

Sato, Kei; Siga Jr., Oswaldo - CRUSTAL EVOLUTION OF THE SOUTHERN SOUTH AMERICAN PLATFORM AND CENTRAL PORTION OF THE PATAGONIAN, BASED ON SM-ND ISOTOPIC DATA
Date: 09/08/00 - Booth F24

Galarza, M. A. T.; Macambira, M. J. B.; Dall'Agnol, Roberto - GEOCHRONOLOGY AND ISOTOPE GEOCHEMISTRY (SR, PB) OF IGNEOUS ROCKS OF THE PORTOVELLO-ZARUMA GOLD MINING AREA, EL ORO, ECUADOR
Date: 09/08/00 - Booth F34

Weber, Werner; Basei, Miguel Angelo Stipp; Siga Jr., Oswaldo - GEOCHRONOLOGY OF CARDOSO ISLAND, SOUTHEAST OF SÃO PAULO STATE
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Kim, Cheong-Bin; Turek, A.; Yoon, C. H.; Chang, Ho-Wan - U-PB ZIRCON GEOCHRONOLOGY FOR PRECAMBRIAN ROCKS OF GYEONGGI MASSIF, KOREA
Date: 09/08/00 - Booth E6

Kim, Cheong-Bin; Chang, Ho-Wan; Huh, Min - KAR AND ARAR AGES OF THE VOLCANIC ROCKS OF THE DINOSAUR FOOTPRINT HOSTING UHANGRI FORMATION, HAENAM, SOUTH KOREA
Date: 09/08/00 - Booth F26

Jafarov, S. A.; Jafarova, R. S.; Ismet, A. R. - HELIUM, NITROGEN, ARGON ISOTOPES (36 AR, 38 AR, 40 AR) GASES OF MUD VOLCANOES OF SOUTH CASPIAN DEPRESSION AND THEIR GEOCHEMICAL VALUE FOR IDENTIFICATION OF GASOGENIC OF DEEP DEPOSITS
Date: 09/08/00 - Booth F22

Reis, N. J.; Santos, J. O. S.; Fletcher, Ian Robert - TWO DISTINCTIVE PROTEROZOIC SEDIMENTARY COVERS IN THE NORTHERN AMAZONIAN CRATON, RORAIMA STATE, BRAZIL
Date: 09/08/00 - Booth E42

Santos, J. O. S.; Hartmann, Léo Afraneo; Reis, N. J.; McNaughton, N. J. - AGE OF THE RORAIMA GROUP AND RORAIMA-LIKE SEQUENCES IN THE NORTHERN AMAZON CRATON
Date: 09/08/00 - Booth E32

Santos, J. O. S.; Hartmann, Léo Afraneo; Gaudette, H. E.; Groves, David Ian; McNaughton, N. J. - A NEW UNDERSTANDING OF THE AMAZON CRATON PROVINCES
Date: 09/08/00 - Booth E38

Rasskazov, Sergei V. - TIMING OF THE QUATERNARY VOLCANISM IN THE BAIKAL AND OLEKMA-STANOVAYA MOBILE SYSTEMS: APPLICATION FOR GEODYNAMICS IN CENTRAL AND EAST ASIA
Date: 09/08/00 - Booth E56

Brandt, Sergei; Ivanov, Alexei Victorovich; Brandt, I. S.; Rasskazov, Sergei V. - ON DISTRIBUTION OF RADIOGENIC ARGON IN MINERALS
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Ahmad, S. M.; Padmakumari, V. M.; Dayal, A. M. - EVOLUTION OF STRONTIUM ISOTOPES IN SEAWATER DURING THE MIDDLE MIOCENE: HIGH RESOLUTION 87SR/86SR RESULTS FROM ODP SITE 758A
Date: 09/08/00 - Booth E31

18-4 Stable and Radiogenic Isotopes in Metallogenesis

Joaquin Ruiz (EUA) - Colombo Celso Tassinari (Brazil)

Iouchko, Nadjeda; Kremenetsky, Alexander - ORIGIN OF MET IMPACTITE AND ITS DIAMOND POTENTIAL AS DISPLAYED BY DEEP DRILLING DATA
Date: 16/08/00 - Booth F25

Kremenetsky, Alexander; Jordaan, Wikus; Yushko, Nadejda - SULFUR ISOTOPE OF PYRITE FROM AURIFEROUS WITWATERSRAND REEFS AS AN INDICATOR OF SEDEX MINERALIZATION
Date: 16/08/00 - Booth F29

Zhao, Baojin; Robb, Laurence J.; Harris, C.; Jordaan, L. J. - ORIGIN OF HYDROTHERMAL FLUIDS AND GOLD MINERALIZATION ASSOCIATED WITH THE VENTERSDORP CONTACT REEF, WITWATERSRAND BASIN, SOUTH AFRICA: CONSTRAINTS FROM S, O, H, C ISOTOPES
Date: 16/08/00 - Booth F27

Marschik, Robert; Chiaradia, Massimo - LEAD ISOTOPE SIGNATURES OF ORES, VOLCANIC, AND BATHOLITHIC ROCKS OF THE CANDELARIA-PUNTA DEL COBRE AREA, CHILE
Date: 16/08/00 - Booth F26

Wauschkuhn, Arndt; Petta, Reinaldo Antônio - DISTRIBUTION OF SULFUR ISOTOPES IN STRATA-BOUND MESOZOIC DEPOSITS OF CENTRAL PERU
Date: 16/08/00 - Booth F35

Mello, Edson Farias; Oliveira, E. P.; McNaughton, N. J.; Xavier, Roberto Perez; Fletcher, Ian Robert; Hagemann, Steffen G.; Lacerda, Carla Maria Mendes - AGE CONSTRAINTS OF FELSIC INTRUSIONS, METAMORPHISM, DEFORMATION AND GOLD MINERALIZATION IN THE PALEOPROTEROZOIC RIO ITAPICURU GREENSTONE BELT, NE BAHIA STATE, BRAZIL
Date: 16/08/00 - Booth F30

Mello, Edson Farias; Hagemann, Steffen G.; Xavier, Roberto Perez; Tassinari, Colombo C. G.; Taylor, B. E.; McGoldrick, P. J. - THE LODE-GOLD MINERALIZATIONS OF THE PALEOPROTEROZOIC RIO ITAPICURU GREENSTONE BELT, NE BAHIA STATE, BRAZIL: ISOTOPIC CONSTRAINTS ON THE FLUID RESERVOIRS
Date: 16/08/00 - Booth F32

Ribeiro, Maria Luisa; Ramos, João Manuel Farinha; Macedo, Carlos Regêncio; Dias, R.; Ferreira, J. T. - K - AR AGES FOR THE MACAO GRANITES (SE CHINA) AND THE MAGMATIC MIGRATION AT THE YENSHIANIAN TIMES
Date: 16/08/00 - Booth F3

Iyer, Sundaram S.; Marinho, M. M.; Barbosa, Jôhildo Salomão Figueiredo; Babinski, M.; Silva, M. G.; Misi, Aroldo - LEAD ISOTOPE EVOLUTION CURVE FOR THE SÃO FRANCISCO CRATON, BRAZIL
Date: 16/08/00 - Booth F33

Souza Neto, João Adauto; Sonnet, Philippe; Lagrand, Jean Michel; Moritz, R. - BONFIM AND ITAJUBATIBA GOLD DEPOSITS, NE BRAZIL: C, O AND Sr ISOTOPE EVIDENCE FOR SKARN ORIGIN
Date: 16/08/00 - Booth F31

Aiqin, Hu; Jahn, Bor-Ming; Zhang, Guoxin; Yibing, Chen; Qianfeng, Zhang - CRUSTAL GROUTW IN THE PHANEROZOIC: ND-SR ISOTOPE EVIDENCE OF GRANITOID FROM NORTHERN XIANJIANG, NW CHINA
Date: 16/08/00 - Booth F24

Ghaderi, Majid; Campbell, I. H.; Bennett, Victoria C.; McCulloch, M. T.; Palin, J. Michael - SR-ND ISOTOPIC TRACING FOR THE ARCHEAN GOLD DEPOSITS IN THE KALGOORLIE-NORSEMAN REGION, WESTERN AUSTRALIA
Date: 16/08/00 - Booth F23

Stein, Holly J.; Hannah, Judith L.; Morgan, John W.; Markay, R. J. - RE-OS DATING OF ARCHEAN TO CENOZOIC ORE DEPOSITS: AN OVERVIEW OF SUCCESSFUL STUDIES
Date: 16/08/00 - Booth F34

Tassinari, Colombo C. G.; Munizaga, Francisco; Duhart, P. - RB-SR DATING OF SPHALERITES FROM EL TOQUI ORE DEPOSIT, SOUTHERN CHILE
Date: 16/08/00 - Booth F28

Krymsky, Robert Shamilevich; Belyatsky, B. V.; Kupriyanova, I. I.; Ryazantseva, M. D. - THE AGE AND ISOTOPE CONSTRAINTS ON GENESIS OF RARE-METAL-FLUORITE MINERALIZATION (VOZNESENKA ORE FIELD, FAR EAST RUSSIA)
Date: 16/08/00 - Booth F22

18-5 New Trends in Stable Isotope Geology

Zheng Yongfei (China) - Enrique Linares (Argentina)

Hsueh-Wen, Yeh - INFLUENCE OF WIND ON CARBON ISOTOPE COMPOSITION OF PLANTS
Date: 14/08/00 - Booth G41

Zheng, Young-Fei; Li, Shu-Guang; Wang, Z. R. - OXYGEN ISOTOPE CONSTRAINTS ON THE EQUILIBRATION OF RADIOGENIC ISOTOPE SYSTEMS IN MINERALS: IMPLICATIONS FOR METAMORPHIC GEOCHRONOLOGY
Date: 14/08/00 - Booth G37

Zheng, Young-Fei - FROM ISOTOPIC EXCHANGE KINETICS TO GEODYNAMICS OF CONTINENTAL SUBDUCTION: A CASE STUDY OF ULTRA-HIGH PRESSURE ECLOGITES FROM THE DABIE-SULU OROGEN IN CHINA
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Wang, Shilu L.; Wan, GuoJiang - CHANGEFUL RELATIONSHIP BETWEEN $\delta^{13}C$ AND INDEX OF RING WIDTH
Date: 14/08/00 - Booth G38

Weiser, Michael E.; Serra, F.; Toulkeridis, T.; Iyer, Sundaram S. - THE APPLICATION OF BORON AND CARBON STABLE ISOTOPE ABUNDANCE DATA FOR QUALITY ASSURANCE AND UNDERSTANDING THE BIOGEOCHEMISTRY OF COFFEE
Date: 14/08/00 - Booth G42

Bernasconi, Stefano M.; McKenzie, Judith A.; Andersen, Nils; Paul, Hilary A. - APPLICATION OF COMPOUND-SPECIFIC HYDROGEN ISOTOPIC MEASUREMENTS TO BIOGEOCHEMICAL AND PALEOClimatological RESEARCH
Date: 14/08/00 - Booth G35

Fortes, Paulo Tarso Ferro Oliveira; Santos, Roberto Ventura; Takaki, T.; Gonçalves, F. T. T. - CARBON AND OXYGEN ISOTOPES IN CARBONACEOUS MATTER AND CARBONATES FROM CRIXÁS GREENSTONE BELT GOLD DEPOSITS, CENTRAL BRAZIL
Date: 14/08/00 - Booth G34

GEOCHRONOLOGY OF CARDOSO ISLAND, SOUTHEAST OF SÃO PAULO STATE.

WEBER, W., BASEI, M.A.S., SIGA JR, O. Instituto de geociências-USP, Rua do Lago, 562, São Paulo, SP, Brazil, 05508-900

The aim of this work is the geological and geochronological study of rocks cropping out on Cardoso Island, on the southeastern coast of São Paulo States, close to the boundary with Paraná State. The terrains which compose the island are mainly an igneous complex with light grey leucocratic, inequigranular, medium - to coarse-grained syenites. The predominant Três Irmãos Syenite (STI), composed of pyroxene, hornblende, and perthitic to mesoperthitic microcline, has a magmatic flow structures, and is cut by the Cambriú alkali-feldspar Granites (GC), which is pinkish grey, leucocratic and medium-grained. Geochemical analysis of STI and GC demonstrate their metaluminous alkaline nature and late-orogenic to anorogenic character. The geochronological results suggest that the bodies were formed between 620 and 570 My according to the U-Pb method in zircons, with cooling between 597 and 531 My (K-Ar in amphiboles). Whole rock Sm-Nd analyses yield TDM ages in the Meso and Paleoproterozoic (1.200 - 2.200 My). A belt of low grade metasedimentary rocks occurs in the northern part of the island. Quartz schist, quartz-mica schist and mica-quartz schist, often containing andalusite and cordierite, predominate. The geochemical and geochronological data suggest that the sources of the metasediments were andesites of continental arc whose protoliths separated from the mantle during the Paleoproterozoic, between 1.800 and 2.200 My. These metasediments probably continue on the continent in the Taquari region and extend southwards in narrow strips between the granitoids of the Paranaguá Domain.