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M. Betti, IAEA
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P.K. Aggarwal, IAEA

IAEA Secretariat:

Scientific Secretaries: H. Nies
B. Newman
L. Araguas Araguas

Symposium Organizers: M. Khaelss
M. Neuhold

Administrative Support: L. Barilaro-Hamonic
F. Chahine
J. Le Normand

Location of the Symposium:

Musée Océanographique
Fondation Albert 1er
Prince de Monaco
Avenue Saint-Martin
98000 MONACO

Website: www.oceano.mc
Tel.: +377 93 15 36 00
Fax: +377 92 16 77 93

Working Language:

English

Resolutions:

No resolutions may be submitted for consideration on any subject; no votes will be taken.

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SUNDAY, 27 MARCH 2011**14:00 – 16:00** **Registration and distribution of
symposium material****17:00 – 19:00** **OPENING SESSION**

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
	R. Calcagno	Oceanographic Museum of Monaco	
	M. Betti	IAEA	
INV001	H. Grassl	Germany	Interaction between Climate Science and Climate Change Politics
	Y. Amano	IAEA	
	H.S.H. Prince Albert II	Monaco	
19:00 – 21:00	<i>Welcome Reception</i>		

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MONDAY, 28 MARCH 2011

08:00 Registration and distribution of symposium material (continued)

09:00 – 10:30 **SESSION 1:**
Role of Isotopes in Understanding and Modelling Climate Change, Marine Ecosystems and Water Cycles

Chairpersons: **H. Grassl, Germany**
B. Mayer, Canada

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
INV002	F.J. Longstaffe A. Ayalon A. Crowe R. Hladyniuk P. Huddart A. Hoyodo R. Macdonald	Canada	Climate change and the oxygen-isotope evolution of the North American Great Lakes
008	J.A. Corcho Alvarado M. Luenberger R. Kipfer R. Purtschert	Switzerland	Late Pleistocene - Holocene climate variations over central Europe reconstructed from groundwater
029	M.W. Weiser W. Aeschbach-Hertig T. Schneider R.D. Deshpande S.K. Gupta	Germany	A temperature and monsoon record derived from environmental tracers in groundwater of Northwest India
180	D. Pittauerová S. Mulitza H.W. Fischer	Germany	Gamma spectrometry for chronology of recent sediments: tracing human induced climate change in NW Africa
10:30 – 11:00	<i>Coffee/Tea Break</i>		

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MONDAY, 28 MARCH 2011**11:00 – 12:30****SESSION 1
(continued):****Role of Isotopes in Understanding and
Modelling Climate Change, Marine
Ecosystems and Water Cycles****Chairpersons:****H. Grassl, Germany
B. Mayer, Canada**

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
040	S.S. Assonov C.A.M. Brenninkmeijer P. Taylor	Germany	Use of CO ₂ isotope data to study global CO ₂ distribution and CO ₂ exchange with land and biosphere
216	M. Whiticar J. Bhatti N. Startsev	Canada	Changes in hydrologic conditions and greenhouse gas emissions in circumpolar regions due to climate change-induced permafrost retreat
068	L.C.R Pessenda E. Vidotto A.A. Buso Jr. J. Passarini Jr P.E. De Oliveira F. Macias F. Ricardi-Branco	Brazil	Late Pleistocene vegetation, climate and relative sea - level changes in the Southeastern Brazilian coast, based on C and N isotopes and bio indicators analysis of mangrove organic matter
199	M. Karcher I. Harms R. Gerdes W. Standring M. Dowdall P. Strand	Germany	New perspectives of climate change impacts on marine anthropogenic radioactivity in Arctic regions
12:30 – 14:00	<i>Lunch Break</i>		

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MONDAY, 28 MARCH 2011**14:00 – 17:00** **POSTER SESSION 1:****Role of Isotopes in Understanding and Modelling Climate Change, Marine Ecosystems and Water Cycles****Chairpersons:** **L. Gourcy, France**
J. Langman, USA**14:00 – 17:00** **Regional Meeting for Latin America and Caribbean: Harmful Algae Blooms (HABs)***To be held at the IAEA-Environment Laboratories
4 Quai Antoine 1er, Monaco
Limited Participation, in Spanish language**15:00 – 15:30* *Coffee/Tea Break***15:30 – 17:00** **WORKSHOP 1:**
Isotopes in Marine Climate Studies**Chairpersons:** **P.P. Povinec, Slovakia**
A. Wagener, Brazil*No. of Paper*
*IAEA-CN-186-**Name**Designating Member*
*State/Organization**Title of Paper*

INV003

C.G. Skilbeck
D. Gutierrez
B. Rein
A. Sifeddine
R. Salvattecchi
D. Fink
E. Druffel
J.A. Sanchez-Cabeza
R. Dunbar

Australia

Regional controls on Holocene sedimentation patterns along the Peru continental margin, and long term implications for El Niño-Southern Oscillation

270

J.A. Sanchez-Cabeza
R. Dunbar
E. Druffel
S. Al-Rousan
D. Fink
D. Gutierrez
U. Morgenstern
S. Reynaud
A. Sifeddine
C.G. Skilbeck

Spain

Nuclear and isotopic studies of the El Niño phenomenon in the ocean

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MONDAY, 28 MARCH 2011

15:30 – 17:00 **WORKSHOP 1:**
(continued)
Isotopes in Marine Climate Studies

Chairpersons: **P.P. Povinec, Slovakia**
A. Wagener, Brazil

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
239	N.S. Fisher Z. Baumann	USA	Application of radiotracer methodology for understanding geochemical fractionation and bioavailability of metals in estuarine sediments
035	S. Jasechko J.J. Gibson A. Pietroniro T.W.D. Edwards	Canada	Stable isotope mass balance of the Laurentian Great Lakes to constrain evaporative losses

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TUESDAY, 29 MARCH 2011

09:00 – 10:40 **SESSION 2:**
Carbon Dioxide Sequestration and
Related Aspects of the Carbon Cycle

Chairpersons: **C. Ballentine, United Kingdom**
C.G. Skilbeck, Australia

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
INV004	K. Buessler	USA	Tracking the fate of carbon in the ocean using thorium-234
096	J.C. Miquel B. Gasser S.W. Fowler	IAEA	Use of natural-series radionuclides to understand particle dynamics and carbon flux in the NW Mediterranean Sea
002	A. Wagener R. Carreira C. Farias C. Rezende L. Cordeiro M. Almeida A. Baeta A. Scofield	Brazil	Origin of organic matter in sediments of the Campos Basin in Brazil by means of stable isotopes and molecular markers
INV005	B. Gunter	Canada	Carbon capture and geological storage: pore space to commerciality; a Canadian perspective
10:40 – 11:00	<i>Coffee/Tea Break</i>		

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TUESDAY, 29 MARCH 2011

11:00 – 12:30 **SESSION 2 (continued):**
Carbon Dioxide Sequestration and
Related Aspects of the Carbon Cycle

Chairpersons: **C. Ballentine, United Kingdom**
C.G. Skilbeck, Australia

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
242	Y. Kharaka P. Campbell- Swarzensky R. Burt Thomas	USA	Environmental impacts of geologic sequestration of CO ₂ : mobilized toxic organic compounds
093	N. Avrahamov Y. Yechieli B. Lazar O. Sivan	Israel	Characterization of the carbon system in the saline groundwater of the Dead Sea
099	B. Reguera F. Boisson T. Darius M.Y. Bottein	Spain	Toxic Algal Blooms and their socio-economic impacts: What can nuclear techniques provide for their Management?
184	G. Johnson B. Mayer M. Shevalier M. Nightingale S. Taylor I. Hutcheon	Canada	Tracing the movement and fate of injected CO ₂ in geological reservoirs using stable isotope techniques
12:30 – 14:00	<i>Lunch Break</i>		

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TUESDAY, 29 MARCH 2011

14:00 – 17:00 **POSTER SESSION 2:**
Methods and Isotope Hydrology II

Chairpersons: **C. Voss, USA**
 K. Buessler, USA

15:00 – 15:30 *Coffee/Tea Break*

15:30 – 17:30 **WORKSHOP 2:**
Southern Hemisphere Radioactivity

Chairpersons: **J.A. Sanchez-Cabeza, Spain**
 F. Carvalho, Portugal

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
133	M. Aoyama H. Nakano D. Tsumune Y. Hamajima M. Fukasawa T. Kawano K. Hirose P.P. Povinec J.A. Sanchez-Cabeza	Japan	Inter and intra basin scale transport of ¹³⁷ Cs in the Pacific Ocean
135	K. Hirose M. Aoyama J. Gastaud M. Fukasawa C.S. Kim I. Levy P.P. Povinec P. Roos J.A. Sanchez-Cabeza S.A. Yim	Japan	Plutonium in southern hemisphere oceans
132	Y. Kumamoto A. Murata S. Watanabe M. Fukasawa	Japan	Decadal changes in the bomb-produced radiocarbon in the Pacific Ocean from the 1990s to 2000s

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TUESDAY, 29 MARCH 2011

**15:30 – 17:30 WORKSHOP 2:
(continued)
Southern Hemisphere Radioactivity**

**Chairpersons: J.A. Sanchez-Cabeza, Spain
F. Carvalho, Portugal**

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
102	P.P. Povinec M. Aoyama R. Breier J. Gastaud M. Groening K. Hirose A.J.T. Jull W.E. Kieser I. Levy U. Morgenstern Z. Top	Slovakia	Isotopes in the southern Indian Ocean - implications for climate change studies
136	D. Tsumune M. Aoyama K. Hirose T. Tsubono Y. Yoshida F. Bryan K. Lindsay G. Danabasoglu	Japan	Global distributions of ^{137}Cs , $^{239,240}\text{Pu}$ and the ratio of $^{239,240}\text{Pu}/^{137}\text{Cs}$ in an ocean general circulation model
152	S.-H. Lee P.P. Povinec G.-H. Hong J. Gastaud C.-S. Kim J. La Rosa	Republic of Korea	The transport of close-in fallout plutonium in the Northwest Pacific Ocean; Tracing of water mass movement using $^{240}\text{Pu}/^{239}\text{Pu}$ atom ratio

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WEDNESDAY, 30 MARCH 2011

**9:00 – 10:40 SESSION 3:
Isotopes and Radionuclides in the
Marine Environment**

**Chairpersons: H. Nies, IAEA
 W. Plastino, Italy**

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
INV006	K. Emeis	Germany	Eutrophication in marine environments as seen from an N-isotope perspective
INV007	W. Moore	USA	Applications of radium isotopes to ocean studies
220	J. Smith	Canada	Radionuclide tracer transport In the Arctic and North Atlantic Oceans
208	M. Karcher J.N. Smith	Germany	Dispersion of 129 Iodine in the Arctic Ocean 1970-2008
10:40 – 11:00	<i>Coffee/Tea Break</i>		

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WEDNESDAY, 30 MARCH 2011

11:00 – 12:30 **SESSION 3 (continued):
Isotopes and Radionuclides in the
Marine Environment**

Chairpersons: **H. Nies, IAEA
W. Plastino, Italy**

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
INV008	R. Michel A. Daraoui M. Gorny D. Jakob R. Sachse L. Tosch V. Alfimov H.A. Synal H. Nies I. Goroncy	Germany	Iodine-129 in the European environment
030	X. Hou V. Hansen J.P. Gwynn A. Aldahan G. Possnert	Denmark	Temporal variation of ¹²⁹ I in the North Sea, Norwegian Sea, and Kattegat by analysis of <i>Fucus Vesiculosus</i> time series
080	R. Delfanti A. Schirone F. Conte C. Papucci	Italy	Anthropogenic radionuclides distribution, mass-balance and future trends in the Mediterranean Sea
170	M. Arnaud F. Duffa S. Charmasson H. Thébault	France	Caesium and Plutonium isotopes as tracers of various events in sediment records in the Bay of Toulon (Northwestern Mediterranean Sea)
12:30 – 14:00	<i>Lunch Break</i>		

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WEDNESDAY, 30 MARCH 2011

14:00 – 17:00 **POSTER SESSION 3:**
Isotopes and Radionuclides in the
Marine Environment

Chairpersons: **W. Moore, USA**
D. Pittauerová, Germany

15:00 – 15:30 *Coffee/Tea Break*

15:30 – 17:30 **WORKSHOP 3:**
Caribbean

Chairpersons: **K. Hirose, Japan**
R. Delfanti, Italy

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
083	A.C. Ruiz-Fernandez N. Solares Cortez V.M. Martínez C. Alonso-Hernández L.H. Pérez-Bernal J.F. Ontiveros-Cuadras A.J. Quejido-Cabezas J.A. Sanchez-Cabeza	Mexico	²¹⁰ Pb-derived reconstruction of environmental changes in Amatique Bay, Guatemala
110	C. Alonso-Hernández A.C. Ruiz Fernández A. Quejido-Cabezas J.A. Sánchez-Cabeza V. Martínez-Herrera J. Gerardo-Abaya M. Betti	Cuba	Historical trend of mercury pollution in Caribbean coastal zones derived from ²¹⁰ Pb and ¹³⁷ Cs chronology

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WEDNESDAY, 30 MARCH 2011

**15:30 – 17:30 WORKSHOP 3:
(continued)
Caribbean**

**Chairpersons: K. Hirose, Japan
R. Delfanti, Italy**

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
071	J.A. Sanchez-Cabeza J.A. Garay-Tinoco J.M. Betancourt J.P. Parra L.F. Espinosa C.M. Alonso-Hernández Y. Bolanos-Alvarez A.J. Quejido M. Fernández García A.C. Ruiz-Fernández	Colombia	Reconstruction of mercury pollution trends in Cartagena Bay (Colombia) with high temporal resolution
191	J. Sericano E. Lucienna C.M. Alonso-Hernández T.L. Wade M.Gómez-Batista A.C. Ruiz-Fernández J.A. Sánchez-Cabeza	USA	Historical flux profiles of organic contaminants in a dated sediment core from Port-au-Prince Bay, Haiti
079	M. Díaz-Asencio C. Alonso-Hernández M. Eriksson J.A. Corcho-Alvarado P. Froidevaux J.A. Sanchez-Cabeza	Cuba	Reconstruction of sedimentary processes using natural and artificial radionuclides (^{210}Pb , ^{226}Ra , ^{14}C , $^{239/240}\text{Pu}$) in the Gulf of Batabano, Cuba.

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WEDNESDAY, 30 MARCH 2011

**15:30 – 17:30 WORKSHOP 3:
(continued)
Caribbean**

**Chairpersons: K. Hirose, Japan
R. Delfanti, Italy**

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
053	W.J. Senior Galindo F.M. López I.M. Fermín A.J. Quejido A.C. Ruiz-Fernández J.A. Sánchez- Cabeza C.M. Alonso- Hernández Ma. B. Gómez- Mancebo D. Suárez	Venezuela	Historical reconstruction of the heavy metal concentration in the Gulf of Cariaco, Venezuela

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THURSDAY, 31 MARCH 2011

09:00 – 10:40 **SESSION 4:**
Groundwater assessments for large aquifers

Chairpersons: **P. Carreira, Portugal**
D. Martinez, Argentina

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
INV009	J. Famiglietti	USA	Groundwater dynamics using GRACE and the potential for combining with isotopic information
INV011	C.I. Voss	USA	Effective groundwater modelling of data-poor aquifer systems – use of parsimony and isotope-based age data
031	R. Purtschert T.K. Bjerre J. Lindberg K. Hinsby	Switzerland	Recharge rates to deep aquifer layers estimated with ³⁹ Ar, ⁸⁵ Kr and ¹⁴ C data: A case study in Odense (Denmark)
195	D. Gastmans H. Chang P. Aggarwal N. Sturchio L. Araguas	Brazil	Groundwater ages and hydro-chemical evolution along a flow-path in the Northeastern sector of Guarani Aquifer System (GAS) derived from structural geology, isotope, noble gas and hydro-chemical data.
10:40 – 11:00	<i>Coffee/Tea Break</i>		

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THURSDAY, 31 MARCH 2011

11:00 – 12:30 **SESSION 4 (continued):**
Groundwater assessments

Chairpersons: **P. Carreira, Portugal**
D. Martinez, Argentina

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
INV010	C. Ballantine	United Kingdom	Noble gas isotopes in hydrology, hydrocarbon exploration and CO ₂ sequestration
041	H. Aydin E. Disli M. Ekmekçi L. Tezcan N. Aksoy	Turkey	Environmental isotopic studies on a major karst aquifer in the Lake Van basin (Turkey)
074	A. Ben Moussa K. Zouari T. Kurttas	Tunisia	Hydrochemical and isotopic investigation of groundwater salinization in the Hammamet-Nabeul aquifer system, North-Eastern Tunisia.
202	L. Ndembo N. Plummer Y. Travi T. Vitvar	DR of the Congo USA France Czech Republic	Use of multiple environmental tracers in age interpretation of the Mont Amba aquifer, Kinshasa, Democratic Rep of Congo
12:30 – 14:00	<i>Lunch Break</i>		

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THURSDAY, 31 MARCH 2011

14:00 – 15:15 **WORKSHOP 4:**
New Frontiers and Future Directions in
Isotope Hydrology

Talks and Guided Discussions on:
Isotope Monitoring Networks

Chairperson: **G. Darling, United Kingdom**

Talks and Guided Discussions on:
Analytical Developments

Chairperson: **R. Purchert, Switzerland**

15:15 – 15:45 *Coffee/Tea Break*

15:45 – 17:00 **WORKSHOP 4 (continued):**
New Frontiers and Future Directions in
Isotope Hydrology

Talks and Guided Discussions on:
Hydrological residence times

Chairperson: **J. Famiglietti, USA**

Talks and Guided Discussions on:
Groundwater assessments

Chairperson: **N. Sturchio, USA**

17:00 – 17:30 **YOUNG SCIENTISTS POSTER AWARDS**

Chairperson: **J. Langman, USA**

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FRIDAY, 1 APRIL 2011

09:00 – 10:40 **SESSION 5:**
Analytical Methods and Instrumentation

Chairpersons: **F. Longstaffe, Canada**
R. Michel, Germany

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
INV012	F.P. Carvalho	Portugal	Uranium series radionuclides in the water column of the North-East Atlantic Ocean
INV013	N.C. Sturchio R. Yokochi Z.T. Lu R. Purtschert	USA Switzerland	A new approach to old water: Atom-Trap Trace Analysis of Krypton-81
045	S. Frey C. Kuells C. Schlosser	Germany	New hydrological age-dating techniques using cosmogenic radionuclides beryllium-7 and sodium-22
022	E. Hrncsek L. Aldave-de-las-Heras M. Bielewski	Germany	Analysis of a single hot particle by a combination of non-destructive analytical methods
10:40 – 11:00	<i>Coffee/Tea Break</i>		

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FRIDAY, 1 APRIL 2011

11:00 – 12:00 **SESSION 5 (continued):**
Analytical Methods and Instrumentation

Chairpersons: **F. Longstaffe, Canada**
R. Michel, Germany

<i>No. of Paper IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
187	M. Hult E. Andreotti R. Gonzalez G. Marissens N. Sahin	Belgium	Underground radioactivity measurements in HADES
203	R. Janovics	Hungary	Advances in radiocarbon measurement of water samples
026	W. Plastino on behalf of ERMES Collaboration	Italy	Is daughter better than parent? A case study: Radon vs Uranium - Uranium groundwater anomalies and active normal faulting
12:00 – 13:00	CLOSING SESSION		

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POSTERS

Poster Session 1: Monday, 28 March 2011, 14:00-17:00

Role of Isotopes in Understanding and Modelling Climate Change, Marine Ecosystems and Water Cycle

<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
Climate			
032	W. Zhou. C. Hu C. Gou	China	Regional response of hydrocycle characteristics of Poyang Lake to climate change
036	M. Gillon, F. Barbecot E. Gibert M. Massault	France	Subsurface water as natural CO ₂ sink
050	F. Holm F.J. Santos Arévalo R. Garcia-Tenorio I. Gómez Martínez	Norway	Study of the SUESS effect using a raised peat bog as historical archives
088	U. Morgenstern B. Ditchburn L. Hutt D. Gutierrez R. Salvattecí	New Zealand	³² Si dating of a sediment core from the central Peruvian margin for resolving the ¹⁴ C reservoir age
097	R. Salvattecí D. Field D. Gutierrez A. Sifeddine T. Baumgartner V. Ferreira J.L. Reyss G. Varga F. Velazco L. Ortlieb	Peru	A high resolution paleoceanographic composite record derived from cross stratigraphy in the tectonically active margin off Pisco, Peru
098	D. Gutierrez A. Sifeddine R. Salvattecí E. Druffel F. Velazco P. Martínez L. Ortlieb	Peru	Variability of siliceous productivity and terrigenous input in the main Peruvian upwelling zone since the Late Pleistocene

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
121	F. Barbecot E. Gibert-Brunet B. Ghaleb Y. Amokrane M. Massault A. Noret	France	Short-term vs long-term environmental reconstruction from carbonated deposits of the Limagne area (Massif Central, France)
151	C.G.Skilbeck D. Gutierrez B. Rein H. Nies B. Murray	Australia	Geochemical signature of El Nino Southern Oscillation in marine laminated sediments from the Peru continental margin since the Last Glacial Maximum.
163	F. Eichinger H.N. Waber J.A.T. Smellie	Germany	Matrix pore water in low permeable crystalline bedrock: An archive for palaeohydro-geological evolution of an investigation site
166	J. De Oliveira E.S. Braga L.H. Vieira	Brazil	Natural radionuclides as tracers of carbon export in Bransfield Strait and Southern Drake Passage
172	I. Consoloni I. Baneschi G. Zanchetta M.L. Aguirre G.M. Boretto L. Dallai I. Isola, E. Fucks M. Guidi M. Pappalardo L. Ragaini A. Ribolini	Italy	Reconstruction of middle Pleistocene – Holocene climate of S. Jorge Gulf (Patagonia, Argentina) using marine molluscs: preliminary geochemical data
176	A. Sifeddine D. Gutierrez R. Salvattec F. Velazco M. Boussafir L. Ortlieb	France	Bulk and isotopic compositions of marine organic matter from laminated sediments off the Peruvian margin as marker of the variability of oxygen minimum zone (OMZ) during the last 2000 years.

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
190	T. Lacoue-Labarthe S. Martin F. Oberhänsli J.L. Teyssie S.J. Markich J.-P. Gattuso R. Jeffree P. Bustamante	IAEA	Metal accumulation in the cephalopod eggs and effect of ocean warming and acidification: a radiotracer study
193	L. Lacerda J. Godoy R. Marins F. Dias C. Rezende	Brazil	Multi-trace approach for shelf water mixing studies on Brazilian regions under different climates
207	M. Kralik C. Schartner	Austria	Temperature and O-18 changes in Alpine precipitation and spring water during the last 30 years
212	C. Bayari N. Ozyurt H. Cheng D. Fleitman M. Ozbakir G. Senoglu	Turkey	Comparison of the groundwater and speleothem stable isotope records of Late Quaternary in the Konya Closed Basin (Central Turkey)
223	U. Schotterer M. Schürch W. Stichler R. Rickli	Switzerland	Trends of stable isotopes in the water cycle in Switzerland and their relation to recent climate variability
Isotope Hydrology 1 (Atmosphere, surface waters and water quality aspects)			
012	Z. Roller-Lutz T. Hunjak D. Mance H.O. Lutz	Croatia	The isotopic altitude effect of precipitation on the Northern Adriatic (Croatia)
027	V. Re E. Allais N. El Hamouti R. Bouchnan E. Sacchi F. Rizzo G.M. Zuppi	Italy	Natural tracers and isotope techniques to define groundwater recharge and salinization in the Bou Areg coastal aquifer (North Morocco)

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
033	H.G.M Eggenkamp J.M. Marques H. Graça	Portugal	The use of $\delta^{37}\text{Cl}$ to explain origin and production of salt from the saline spring "Fonte da Pipa" in Rio Maior (Central Portugal)
038	S. Kebede G. Admasu Y. Travi	Ethiopia	Estimating ungauged catchment flows and unaccounted evaporative water loss from Lake Tana and its floodplains: Isotope hydrological approach
039	A.A. Argiriou V. Salamalikis S. Lykoudis	Greece	Development and evaluation of a methodology for the generation of gridded isotopic data sets
043	S. Castañeda R. Sucgang R. Almoneda L. Fernandez A. Ramos	Philippines	Geochemical and isotope techniques in assessing trends in groundwater quality in selected coastal urban areas in the Philippines
051	K. Ichinayagi D. Manabu M. Yamanaka	Japan	Stable isotopes in precipitation over Indonesia
063	B. Ketchemen-Tandia S. Ngo Boum C.R. Ebonji Seth C. Wonkam G.R. Nkoue Ndong F. Huneau H. Celle-Jeanton	Cameroon	Stable isotopic composition of rainfall from Western Cameroon
064	B. Chelli	Tunisia	Hydrological changes in the Mediterranean zone: impacts of environmental modifications (changing climate) in the Merguellil catchment (central Tunisia)
066	S.P. Rai A.M. Kumar Bhishm R.D. Singh	India	Isotopic characterisation of snow, ice and glacial melt in Western Himalayas, India
069	T. Betancur D. Santa P. Palacio C. Palacio B. Wills D. Ángela Hoyos	Colombia	Use of isotopic techniques for the assessment of hydrological processes in wetlands, Cienaga Colombia

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
070	E. Sacchi C.A. Delconte M. Pennisi E. Allais	Italy	Stable isotopes of dissolved nitrate and boron as indicators of the origin and fate of nitrate contamination in groundwater: results from the western Po plain (Northern Italy)
073	C.A. Delconte E. Sacchi E. Allais E. Racchetti	Italy	Evaluation of nitrate sources and transformation in the Oglio River watershed
077	M.Tanoue K. Ichiyangi J. Shimada	Japan	Spatial distribution of stable isotopes of precipitation in Kumamoto, Japan
082	C. Dapeña J.L. Peralta Vital H.O. Panarello R. Gil Castillo D. Leiva Bombouse E.I. Ducós L. Valdez J. Olivera Acosta L. Marbán	Argentina	Isotope and hydrochemical study of seawater intrusion into the aquifers of a coastal zone. Cuba
086	T. Tagma N. Warner L. Bouchaou N. Ettayfi Z. Lgourna S. Boutaleb A. Vengosh	Morocco	Radium, uranium and trace metals contamination in Al Bahira aquifer, Yousseoufia Area, Morocco
090	D. Dindyal R. Brizmohun E. Sacchi	Italy	Assessment of groundwater quality in the Western aquifers of Mauritius using isotope techniques
091	A. Alcindor E. Sacchi A.E. Taigbenu	Italy	Processes affecting groundwater quality in the La Digue aquifer, Seychelles

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
101	P.P. Povinec L. Araguás-Araguás P.K. Aggarwal R. Breier A. Šivo M. Richtáriková	Slovakia	Spatial and vertical distribution of isotopes in groundwater of Slovakia
105	R.L. Michel	USA	Use of isotopic data to determine influence of seasonal effects in rivers
107	E. Pastén Zapata R. Ledesma Ruiz J. Mahlknecht T. Harter R. Aravena	Mexico	An investigation on water quality and fingerprinting of nitrate sources in groundwater
109	A. Montero D. Leyva J.R. Estevez C.A. Luaces J. De la Cruz I. Pupo M. Rodríguez J.A. Quejido M.I. Rucandio M. Sanchez P. González	Cuba	Evaluation of the marine intrusion in Havana province groundwater using hydro-chemical and isotopic tools
117	E. Bocanegra C. Romero D. Leyva P. Carrión I. Benavent M. Roma L. Araguas J. Gerardo-Abaya L.Toro	Argentina	Application of isotopic tools for integrated management of coastal aquifers in Latin America
123	M. Brencic A. Torkar P. Vreca	Slovenia	Deuterium excess of waters in Slovenia

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
130	E. Huitu E. Sonninen L. Arvola	Finland	Seasonal variation of stable isotope ratios of oxygen and hydrogen in two tundra rivers in NE European Russia
142	S. Ben Ammar G. Favreau C. Leduc K. Zouari	Tunisia	Assessing the effect of human activities on groundwater quality of a phreatic aquifer in semiarid Tunisia: preliminary results using environmental isotopes
143	S. Ben Ammar W. Snoussi J-D. Taupin M.N. Oueslati M. Khouatmia M. Ben Assi	Tunisia	Identifying sources of ground water resources degradation in coastal phreatic aquifer using geochemical and isotopic data: a case study from northern Tunisia
154	G. Elamin A. Sam T. Yagoob	Sudan	Determination, source identification and GIS mapping in ground water from Bara Aquifer
161	M.E. Zabala M. Manzano M. Varni P. Weinzettel	Argentina	On the sources of salinity in groundwater under plain areas. Insights from $\delta^{16}\text{O}$, $\delta^2\text{H}$ and hydrochemistry in the Arroyo del Azul basin, Argentina
167	A. Voropaev S. Voerkelius L. Eichinger V. Grinenko	Germany	The isotope study of nitrogen compounds from different aquatic ecosystems (Cyprus, Ukraine, Russia)
171	L. Vives L. Rodríguez M. Manzano P.K. Aggarwal L. Araguas A. Valladares	Argentina	Preliminary analysis of the role of wetlands and rivers in the groundwater discharge of the Guaraní Aquifer System in NE Argentina
173	H. Delattre C. Vallet-Coulomb C. Sonzogni	France	Tracing the sources of atmospheric vapour in a Mediterranean region (Camargue, France) with laser spectrometry : methodology development
178	C. Lai	USA	A mechanistic understanding of deuterium excess as a tracer for evapotranspiration

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
185	B. Mayer L. Wassenaar	Canada	Tracing nitrate in eutrophic Lake Winnipeg (Manitoba, Canada) using isotope techniques
194	N. Warner T. Tagma D. Vinson L. Bouchaou N. Ettayfi Z. Lgourna S. Boutaleb A. Vengosh	USA	Evaluation of Sr, B, and Ra isotopes from geothermal source water from Southern and Central Morocco
197	C. Varlam I. Stefanescu O. Dului I. Faurescy D. Bogdan A. Soare	Romania	Tritium level in Romanian precipitation
214	J. Rodríguez- Arévalo M.F. Díaz-Teijeiro S. Castaño	Spain	Modelling and mapping oxygen-18 isotope composition of precipitation in Spain for hydrologic and climatic applications
217	M. Korun K. Kovacic J. Kožar Logar	Slovenia	Concentrations of tritium and members of the uranium and thorium decay chains in ground water in Slovenia and their implication for managing ground water resources
219	A. Dody	Israel	What affects the isotopic composition of rainfall - new observations
221	Z. Kattan B. Kattaa	Syrian Arab Republic	Modelling the spatial isotope variability of precipitation in Syria
232	J.L. Peralta Vital R. Gil Castillo L.F. Molerio León C. Dapeña J. Olivera Acosta	Cuba	Radioisotope monitoring network designed for the best hydrodynamic characterization of a karstic basin
234	U. Morgenstern M.K. Stewart R. Stenger	New Zealand	Dating of streamwater using tritium in a post nuclear bomb pulse world: continuous variation of mean transit time with streamflow

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
236	M.F. Ben Hamouda P. Carreira Paquete H. Eggenkamp J.M. Marques F. Santos R. Goncalves P. Represas	Tunisia	Understanding the origin of salinization of the coastal aquifer of Sousse (Tunisia) using geochemical and isotope investigations
257	J. Fritz W. Balderer F. Leuenberger L. Eichinger	Switzerland	Isotopic investigation of the origin of ammonia and nitrate in the mineral spring waters of Scuol (Lower Engadine, South Eastern Switzerland)
258	M. Gschwend W. Balderer F. Leuenberger L. Eichinger	Switzerland	Isotopic investigation the origin of nitrates of waters outflowing from a waste deposit site near Scuol (Lower Engadine, South Eastern Switzerland)

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Poster Session 2: Tuesday, 29 March 2011, 14:00-17:00

Methods and Isotope Hydrology

<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
Methodological Developments			
011	V. Patrascu A.S. Bologa	Romania	Traditions and new perspectives for Marine Radioecology Laboratory in Romania
023	M. Rosner J. Vogl	Germany	Three new offset $\delta^{11}\text{B}$ isotope reference materials for environmental boron isotope studies
028	T. Reichel W. Aeschbach-Hertig M.K. Oberthaler	Germany	Setup for water degassing and argon separation from air
061	M. Pennisi D. Andreani A. Adorni-Braccesi P.F. Sciuto R. Gonfiantini	Italy	ISOBORDAT: an online database on boron isotopes
084	J. Welte F. Ritterbusch C. Kaup W. Aeschbach-Hertig M.K. Oberthaler	Germany	Atom Trap Trace Analysis of ^{39}Ar
092	M.K. Pham M. Betti J. Bartocci E. Chamizo J. Gastaud J.M. Gómez-Guzmán H. Nies E. Vasileva	IAEA	IAEA reference materials for quality assurance, quality control of marine radioactivity study
119	G. Skrzypek R. Sadler D. Paul I. Fórizs	Australia	Normalization methods and selection strategies for standards in stable isotope analyses
125	G. Lujaniene	Lithuania	Determination of Pu, Am and Cm in environmental samples
177	K. Pourtangestani	Canada	Optimization of plastic scintillator thicknesses for online beta detection in mixed fields

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
251	N. Saad I. Green G. Hsiao A. Bals	Switzerland	Measurement of $^{13}\text{C}/^{12}\text{C}$ in dissolved organic and inorganic carbon of various water samples using portable laser spectroscopy-based systems
253	E. Berman J. Leen M. Gupta T. Owano D. Baer	USA	Advances in high-frequency liquid water isotope analyzers for hydrological measurements in the field
Isotope Hydrology 2 (General groundwater studies, and flow and transport modelling)			
003	L. Bouachou T. Tagma W. Nathaniel J.L. Michelot S. Boutaleb Y. Hsissou A. Vengosh M. Elfaskaoui	Morocco	Isotopic age and composition of surface water as indicators of groundwater sustainability in semi-arid area: Case of Souss basin (Morocco)
009	D.E. Martinez O.M. Quiroz Londoño H.E. Massone C. Dapeña	Argentina	Isotopes tracing the water cycle in the Pampeano aquifer at the southeast of Buenos Aires province, Argentina
010	R. Oyarzún J.F. Muñoz E. Aguirre J. Oyarzún C. Ortíz S. Marín H. Maturana E. Jofré	Chile	Isotopic and hydro-geochemistry techniques for the sustainable management of water resources in arid watersheds of North Chile
015	Z. Pang	China	Use of isotopes in assessing the response of groundwater to cross-catchment water diversion in Tarim basin
016	T.A. Souza J.M. Godoy M.L.D.P. Godoy I. Moreira Z.L. Carvalho	Brazil	Quantification of submarine groundwater discharge in South eastern Brazil using natural and conservative tracers

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
018	A. Cortés I. Ramírez-Guzmán J. Pérez-Quezadas N. Hernández-Laloth	Mexico	Conceptual hydrogeological model of the Valle de León aquifer, Guanajuato, Mexico, using hydrochemical, isotopic and pumping tests data
020	K. Zouari R. Trabelsi A. Kacem	Tunisia	Using isotope methods to assess groundwater recharge in some hydraulic catchments in a semi-arid region in central Tunisia
021	M.F. Ben Hamouda J. Tarhouni K. Zouari G. Favereau	Tunisia	Modelling the recharge and the renewal rate based on the radioactive isotopes (^3H , ^{14}C) in the aquifer of El Haouaria, Tunisia
034	K. Mezga J. Urbanc	Slovenia	Changes in groundwater chemical and isotopic composition during long-term pumping test in Brestovica karst aquifer
047	E. Bocanegra M. Pool J. Carrera D. Martínez	Argentina	Contribution of isotopic tools to the numerical simulation of the Mar del Plata coastal aquifer, Argentina
049	N. Hocini M. Mami	Algeria	Detection of water leaks in Beni-Haroun dam (Algeria)
055	A. Nada	Egypt	Environmental isotopes along River Nile Valley, and climatic changes in Egypt
056	S. Zavadlav S. Lojen	Slovenia	Hydrogeochemical and isotopic characteristics of tufa precipitating waters : a case study of river Krka (Slovenia)
059	P.M. Carreira J.M. Marques M.R. Carvalho D. Nunes M. Antunes da Silva	Portugal	Isotopic and geochemical signatures of Melgaço CO ₂ -rich cold mineral waters – NW Portugal
060	F. Gherardi	Italy	Investigating natural analogues for CO ₂ sequestration in ultramafic rocks: the need for a reactive transport approach
062	G. Magro F. Gherardi R. Cioni M. Guidi	Italy	Dissolved inert gases in three karstic systems in Europe (France, Spain and Greece)

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
067	S. Laoharojanaphand K. Kamdee A. Charuratana N. Noipow W. Chantachot D. Dechop	Thailand	Application of isotope hydrology to groundwater study of Chiang Mai Basin, Thailand
076	T. Vo H. Nguyen T. Nguyen	Vietnam	Using isotope techniques $^{34}\text{S}/^{32}\text{S}$ ($\delta^{34}\text{S}$) to determine an origin of dissolved sulphate in Thuan My mineral water
104	S. Ganyaglo S. Osae	Ghana	Hydrogeochemical and isotopic studies of groundwater in the Central Region of Ghana
106	B. Palacio C. Dapeña V. Bentacur	Colombia	Use of isotopic techniques for the assessment of hydrological interaction surface water and groundwater. Rio Man - Ciénaga Colombia
112	R. Avalos Ligan	Honduras	Isotopes in the estimation of water balance of surface and groundwater resources. Lake Yojoa. Basin. Honduras, Central America
113	S. Dogramaci G. Skrzypek W. Dodson P.F. Grierson	Australia	The stable hydrogen and oxygen isotope composition of precipitation, surface water and groundwater in semi arid climate, Hamersley Basin, Western Australia
115	A. Mayer R. Purtschert J. Sültenfuss C. Claude I. Travi	Switzerland	Multiple tracer (^4He , ^{14}C , ^{39}Ar , $^3\text{H}/^3\text{He}$, ^{85}Kr) depth profile in an extensively exploited multi-level aquifer system in the Venetian plain, Italy
116	L. Gourcy E. Petelet-Giraud	France	An unexpected $\delta^{18}\text{O}$ and $\delta^2\text{H}$ variability of groundwater of the Tertiary aquifers of the Paris Basin
118	T. Ferjan M. Brencic P. Vreca	Slovenia	Changes in isotopic composition of bottled natural mineral waters due to different storage conditions
122	O. Mukiza	Rwanda	Assessment of groundwater recharge mechanisms in lava region of Rwanda using stable isotopes

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
126	J.F. Muñoz J. Uribe L. Vitoria R. Oyarzún E. Aguirre S. Marín O. Acosta	Chile	Isotopic characterization of an altiplanic arid basin. Application to the water balance of Salar Huasco basin, northern Chile.
129	F. Hadj Ammar P. Deschamps N. Chkir B. Hamelin K. Zouari	France	Uranium isotopes as a tracer of groundwater evolution in Complexe Terminal aquifer, Tunisia
131	A. Leis R. Schmitt A. Van Pelt M. Plieschnegger T. Harum W. Zerobin H. Stadler	Austria	Isotope investigations at an alpine karst aquifer by means of on-site measurements with high time resolution and near real-time data availability
141	K. Osenbrueck A. Bretzler S. Stadler A. Ehser J.S. Ruprecht S.M. Weise R. Gloaguen	Germany	Groundwater flow pattern and water-rock interaction in the Ethiopian Rift Valley
146	J. Jaunat F. Huneau A. Dupuy H. Celle-Jeanton M. Franceschi P. Le Coustumer	France	Insight into groundwater flow within a crystalline aquifer. Case study of the Ursuya Mount, Northern Basque Country (France)
147	C.L. Agudelo-Arango	Costa Rica	Application of hydrogeochemical and isotopic tools in the validation hydrogeological model for Huacas-Tamarindo aquifer, in North Pacific of Costa Rica
148	R.G. Matamoros-Arguedas	Costa Rica	Hydrogeochemical and isotopic characterization for hydrogeological model validation of Parrita aquifer, in Central Pacific of Costa Rica (IAEA-Project RLA/8/041)
156	J. Petersen	France	Groundwater flow computed with MODFLOW vs isotopic age tracer data in the "Continental Intercalaire" (Sahara)

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
162	G.D. Lorenz L. Eichinger E. Funk M. Heidinger	Germany	A case study from Southwest Germany – shifting of groundwater age study during on-year pumping test and comparison of isotope methods
164	F. Eichinger H.N. Waber J.A.T. Smellie	Germany	Origin and evolution of reactive and noble gases dissolved in matrix pore water
169	C. Vallet-Coulomb M. Troin E. Piovano F. Sylvestre	France	Isotopic modelling of Laguna Mar Chiquita, a large closed saline lake of central Argentina
183	T. Anovski E. Anovska-Jovceva V. Popov	The frmr.Yug.Rep. of Macedonia	Determination the MRT of groundwater by application of the distribution of environmental (hydrogen and oxygen) isotopes
189	M. Gebre Egziabeh T. Ayenew S. Kebede	Ethiopia	Understanding the hydrogeology of Raya Valley using stable isotopes of water, Northern Ethiopia
192	E. Aguirre M. Gallardo P. Moya	Chile	Isotopic techniques and measurement facilities to support hydrological and environments studies in Chile, South America
196	D. Gastmans R. Aravena H. Chang R. Hirata M. Manzano L. Vives L. Rodrigues P. Aggarwal L. Araguas	Brazil	Role of isotopes in the development of a general hydrogeological conceptual model of the Guarani Aquifer System (GAS)
200	P. Carrion S. Jimenez P. Romero	Ecuador	Application of isotopic tools for integrated management of Santa Elena coastal aquifer, Ecuador
205	W.G. Darling J.A. Barker D.C. Goody M. Robinson	United Kingdom	Chalk catchment transit time: unresolved issues

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
206	M. Kralik F. Humer J. Grath	Austria	Dating of young groundwater in eight porous aquifers in Alpine basins by ^{18}O , ^3H , $^3\text{H}/^3\text{He}$, CFC and SF_6
213	K.H. Angeyo P.O. Ogwari	Kenya	Feasibility for chemometrics-assisted exploration and management of geothermal resources in the Kenya Rift System utilizing stable isotope and related measurements
215	D. Cicerone P. Sanchez Proano	Argentina	Use of isotope techniques for flow modelling in an aquifer of Argentina
224	Y. Khalaj Amirhosseini	Islamic Republic of Iran	Application of isotope and dye tracing methods in hydrology (case study: Havassan Dam construction)
225	H. Marah N. Zine M. Qurtobi O. Bouchera F. Raibi F. Taous	Morocco	Geostatistical analysis of spatial isotope (^{18}O , ^2H , ^3H and ^{14}C) variability of groundwater across Morocco
231	J.L. Peralta Vital R. Gil Castillo L.F. Molerio León O.H. Panarello C. Dapeña L. Valdez Gonzales J. Carrazana González J. Olivera Acosta E. Gema Fleitas	Cuba	Cuban experiences in the application of the nuclear techniques as valuable evaluation tools for the sustainable management water resources
235	L. Hernandez	Venezuela	Determination of the origin and preferential flow-paths the Groundwater-flow and high uplift pressures by means of the use of isotope techniques underneath the Borde Seco Dam during its first impounding.
246	Carrión, P Jiménez, S Romero, P	Ecuador	Application of isotopic tools for integrated management of Santa Elena Coastal aquifer, Ecuador
250	N. Mali J. Kozar-Logar A. Leis	Slovenia	Isotope investigations of groundwater movement in a coarse gravel unsaturated zone

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No of Poster IAEA-CN-186-	Name	Designating Member State/Organization	Title of Paper
271	D. B. Bredenkamp H. Janse van Rensburg	South Africa	Groundwater recharge and the average residence time of groundwater in dolomitic aquifers using the thermo-nuclear injected ^{14}C pulse as a natural tracer

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Poster Session 3: Wednesday, 30 March 2011, 14:00-17:00

Isotopes and Radionuclides in the Marine Environment

<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
Marine Environment and Ecosystems			
005	F.P. Carvalho J.M. Oliveira A. M. Soares	Portugal	Sediment accumulation rates and ^{210}Pb -excess in sediments from the North-East Atlantic
017	F. Saghatchi M. Salout A. Eslami	Islamic Republic of Iran	Determination of ^{226}Ra and ^{40}K in water of drilled wells in Zanjan city, Iran
019	C. Wanderley J.M. Godoy C.E. Rezende Z.L. Carvalho	Brazil	Looking for damming effects on the sedimentation rates in the estuary region of the Paraiba do Sul river, Brazil
042	G.V. Barros T.M. Novais G.M. Zuppi C. Vaz	Brazil	Stable lead and carbon isotopes in sediments of Babitonga Bay: an oil spill case
053	W.J. Senior Galindo F.M. López I.M. Fermín A.J. Quejido A.C. Ruiz-Fernández J.A. Sánchez-Cabeza C.M. Alonso-Hernández Ma. B. Gómez-Mancebo D. Suárez	Venezuela	Historical reconstruction of the heavy metal concentration in the Gulf of Cariaco, Venezuela
072	F.D. Sikoki B.B. Babatunde	Nigeria	Assessment of trace metal contamination of marine resources for an integrated catchment management scheme in the Niger Delta, Nigeria
075	M.I. Badran	Saudi Arabia	Environmental monitoring outlook in the Red Sea and Gulf of Aden
081	A.V. Stepanov N.A. Rimski-Korsakov	Russian Federation	Radioactive isotopes as labels inspection of underwater potentially dangerous objects in the Kara Sea

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
085	R.C. Chesori D.M. Maina J.M. Onyari S. Bartilol	Kenya	Elemental analyses in sea sediments and water from the Kenyan coast using XRF.
095	E. Bosc I. Osvath, H. Ramadan	IAEA	MARIS, Online Marine Radioactivity Database
103	A. Fekri M. Wahbi A. Benbouziane O. Hammoumi H. Marah, H.	Morocco	The tritium as an indicator for landfill leachate pollution (case of Mediouna landfill, Morocco)
111	C. Alonso-Hernández I. Tolosa M. Mesa	Cuba	Organochlorine contamination (PCBs, DDTs, HCB, HCHs) in sediments of Batabano golf, Cuba
127	N. Cukrov M. Cukrov S. Lojen	Croatia	C and N stable isotope variability in soft tissue of invasive species <i>Ficopomatus enigmaticus</i> (Annelida, Polychaeta)
134	P. Saccon A. Leis A. Marca J. Kaiser J. Savarino M. Boettcher T. Eisenhauer J. Sueltenfuss	Austria	Assessment of potential nitrate pollution sources in the Marano Lagoon (Italy) and set-up of an environmental monitoring programme (FONIMAR)
139	R. Szymczak K. Srisuksawad A. Omanee N. Phongsuwan	Australia	Radioecology studies and probabilistic ecological risk analysis of sediment-derived metal contaminants in coastal/coral reef ecosystems
140	K. Satpathy A. Mohanty G. Sahu M. Prasad M. Smita Achary M. Samantara S. Biswas M. Selvanayagam	India	Ecological studies in the coastal waters of Kalpakkam, southeast coast of India, in the vicinity of a nuclear island

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
149	S. Pan J. Zheng M. Yamada Z. Liu	China	$^{240}\text{Pu}/^{239}\text{Pu}$ atom ratios in sediments from the Yangtze River, China
153	S. Choi S. Yim J. Chae	Republic of Korea	Spatio-temporal variations of anthropogenic radionuclides in the seawater of East Sea/Japan Sea
160	A. Bombard A. Zulauf S. Happel	France	New resin for the selective extraction of I-129
168	L. Tositti G. Cinelli E. Brattich P. Cristofanelli P. Bonasoni	Italy	Aerosol characterization at The WMO-GAW station of Mt. Cimone (2165 m a.s.l.) by ^7Be , ^{210}Pb and PM10
174	J.A. Izbicki C.A. Burton P.W. Swarzenski	USA	Use of isotopes to understand fecal indicator bacteria and nutrient sources in coastal settings
179	H.W. Fischer S. Ulbrich D. Pittauerová B. Hettwig	Germany	Medical and other radioisotopes as tracers in the wastewater-river-sediment chain
186	R. Guerra S. Righi R. Pistocchi M. Ponti	Italy	Organic matter origin and distribution in sediments and suspended particulate matter from a coastal lagoon traced by $\delta^{13}\text{C}$ and ^{210}Pb
188	A. Murad A. Aldahan X.L. Hou S. Hussein G. Possnert	United Arab Emirates	Natural radioactivity in groundwater from the United Arab Emirates (UAE)
191	J. Sericano E. Lucienna C.M. Alonso-Hernández T.L. Wade M. Gómez-Batista A.C. Ruiz-Fernández J.A. Sánchez-Cabeza	USA	Historical flux profiles of organic contaminants in a dated sediment core from Port-au-Prince Bay, Haiti

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204	R. Chesori D. Maina J. Onyari S. Bartilol	Kenya	Trace element analyses in edible seaweeds from the Kenyan coast using TXRF
210	K. Ouffoue S. Bamba C. Melecony B. Soro	Cote d'Ivoire	State of the environment lagoon of the tropical island, Ile Vitré, Cote d'Ivoire: Water quality assessment by physical and chemical parameters
211	K. Ouffoue S. Bamba S. Bambara C. Ahibo	Cote d'Ivoire	Study of the quality of the deposited sediment materials in the aquatics plan port of Guinea's Gulf , case of port of San Pedro, Côte d' Ivoire
226	C. Dueñas M.C. Fernández E. Gordo S. Cañete M. Pérez	Spain	Deposition behaviours of ²¹⁰ Pb and ⁷ Be observed in Malaga, Spain
227	M.C. Fernández C. Dueñas E. Gordo S. Cañete M. Pérez	Spain	Natural and artificial radioactivity in drinking water in Malaga, Spain
228	A. Hierro J.P. Bolívar F. Vaca	Spain	Behaviour of U-series radionuclides in an estuary affected by acid mine drainage and industrial releases
229	A. Ugur I. Filizok B. Özden	Turkey	Atmospheric depositional characteristics of ²¹⁰ Pb at a site in Izmir, Turkey
Marine Radioactivity as Tool for Process Studies			
007	J. Corcho Alvarado M. Diaz-Asencio C. Alonso Hernandez P. Froidevaux J. Sanchez Cabeza F. Bochud	Switzerland	Plutonium and americium isotopes as alternative chronostratigraphic markers in tropical regions: An application in the Havana Bay (Cuba)

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013	W. Yu L. Chen J. He W. Men	China	Natural radioisotopes as tracers of particulate organic carbon transport, export and burial in Chukchi Sea, Arctic Ocean
024	D. Pavicic-Hamer D. Barišic	Croatia	¹³⁷ Caesium distribution in the Northern Adriatic sea (2006-2010)
037	S. Gulin V. Egorov G. Polikarpov I. Osvath N. Stokozov N. Mirzoeva N. Tereshenko L. Gulina V. Proskurnin	Ukraine	Radiotracers in the Black Sea: a tool for marine environmental assessments
078	M.L. Godoy J.M. Godoy L.J.C. Bezerra F.J.S. Dias R.V. Marins	Brazil	Distribution of Barium and Uranium in tropical Brazilian marine waters
087	B. Veleva M. Kolarova G. Mungov	Bulgaria	Investigation of the radioactivity in the Bulgarian Black sea coastal zone – results from 1995-2005 experimental study
089	J. Gastaud I. Levy J. Scholten M. Rutgers van der Loeff	IAEA	Anthropogenic radionuclides along a North-South transect in the East Atlantic
100	M.W. Yii Z. Wan-Mahmood Z. Ahmad H. Shahar N.A. Md-Jaffary A.S. Abu-Bakar.	Malaysia	Inventory of natural and anthropogenic radioactivities within Exclusive Economic Zone (EEZ) of east coast Peninsular Malaysia

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<i>No of Poster IAEA-CN-186-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
114	I. Levy J. Gastaud S. Azemard M. Eriksson P. Povinec J.A. Sanchez- Cabeza M. Aoyama	IAEA	Determination of ultra-low concentrations of ¹³⁷ Cs, and ⁹⁰ Sr in small volume seawater samples from the BEAGLE-2003 sampling campaign
124	G. Lujanieni G. Garnaga K. Jokšas A. Garbaras R. Skipityte T. Šciglo R. Bariseviciute B. Šilobrietiene E. Radžiute L. Lagunaviciene	Lithuania	¹³⁷ Cs, ^{239,240} Pu ²⁴¹ Am and trace elements behaviour in the Baltic Sea - Effect of organic substances
132	Y. Kumamoto A. Murata S. Watanabe M. Fukasawa	Japan	Decadal changes in the bomb-produced radiocarbon in the Pacific Ocean from the 1990s to 2000s
138	S. Aközcan A. Ugur	Turkey	²¹⁰ Po and ²¹⁰ Pb Concentration in marine samples from Didim and Izmir Bay (Aegean Sea)
144	A. Nestler M. Berglund P. Taylor, P.	Belgium	Isotope analysis in support of nitrogen pollution management in marine waters - a review of isotope studies and approaches
145	G. Stewart	USA	The application of polonium-210 as an organic carbon tracer in the surface ocean
157	N. Evangeliou H. Florou P. Kritidis	Greece	Cs-137 in marine sediments from the Eastern Mediterranean from the pre-Chernobyl age to the present
158	P. Tremblay R. Grover J.F. Maguer C. Ferrier-Pagès	Monaco	Changes in photosynthetically fixed ¹³ Carbon with feeding and light levels in the coral-zooxanthellae symbiosis

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159	J.A. Sanchez-Cabeza I. Levy J. Gastaud M. Eriksson I. Osvath H. Nies M. Aoyama P.P. Povinec K. Komura	Spain	¹³⁷ Cs as a tracer of the ocean conveyor belt in the South Atlantic Ocean
165	J. De Oliveira E.S. Braga	Brazil	Distribution of natural radionuclides, nutrients and trace elements in the Cananéia-Iguape estuarine complex
181	D. Pittauerová B. Hettwig H.W. Fischer	Germany	Supported lead in Pb-210 chronology
201	E. Güngör N. Cagatay	Turkey	Sedimentary record of Late Maunder Minimum in the Black Sea
209	W. Pereira A. Kelecom D. Py Junior	Brazil	Temporal assessment of natural isotopes by marine fish cubera snapper fish (<i>Lutjanus Cyanopterus</i> , Cuvier, 1828) from the Brazilian coast
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252	G.V. Lapytev	Ukraine	The Black Sea SST reconstruction for the past 2000 years using radiometrically dated sediment records from abyssal plain and continental slope
254	T. Chouvelon J. Spitz, P. Caurant, P. Méndez Fernandez, P.,Bustamante	France	Use of stable carbon and nitrogen isotopes for trophic levels evaluation and food webs reconstruction: the Bay of Biscay case study
255	A. Powell N. Banerjee G. Hsiao R. James L. Munro	USA	Investigation of deep sea hydrothermal samples for isotopic composition and interfering compounds using CRDS

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