Monday

OS1 Open Session on Ocean Circulation and Water Masses (including Outstanding Young Scientist Award Lecture)

Convener: Steinfeldt, R.
Co-Convener(s): Kanzow, T., Joyce, T.
Lecture Room D
Chairperson: STEINFELDT, R.

8:30–8:45; EGU2008-A-08642; OS1-1MO1O-001
Kanzow, T.; Cunningham, S; Rayner, D; Baringer, M; Johns, W; Hirschi, J; Beal, L; Meinen, C; Bryden, H; Marotzke, J
Observations of the temporal variability of the Atlantic meridional overturning circulation from the Rapid-MOC transatlantic array at 26.5°N

8:45–9:00; EGU2008-A-08065; OS1-1MO1O-002
Hirschi, J.; Killworth, P.; Blundell, J.; Cromwell, D.
Sea surface height signals as indicators for oceanic meridional mass transports

9:00–9:15; EGU2008-A-03981; OS1-1MO1O-003
O’Rourke, E.; Hughes, C; Williams, R
The effects of topography on thermohaline adjustment

9:15–9:30; EGU2008-A-06836; OS1-1MO1O-004
Hughes, C. W.; Bingham, R. J.
Can variations in the Atlantic Meridional Overturning Circulation be measured using only western boundary pressure measurements?

9:30–9:45; EGU2008-A-03430; OS1-1MO1O-005
Bingham, R.J.; Hughes, C.W.; Roussenov, V.; Williams, R.
Meridional coherence of the North Atlantic meridional overturning circulation

9:45–10:00; EGU2008-A-00934; OS1-1MO1O-006
Schewe, J.; Levermann, A.
On the relation of meridional density gradients and Southern Ocean wind stress with respect to the global meridional overturning circulation: A model study

10:00 COFFEE BREAK

Chairperson: STEINFELDT, R.

10:30–11:15; EGU2008-A-08113; OS1-1MO2O-001
Naveira Garabato, A.C.
Ocean mixing and the Meridional Overturning Circulation: a shifting paradigm (Outstanding Young Scientist Award Lecture) (solicited)

11:15–11:30; EGU2008-A-02057; OS1-1MO2O-002
Williams, P.; Haine, T.; Read, P.
Can loss of balance from mesoscale eddies adequately power deep ocean mixing?

11:30–11:45; EGU2008-A-07577; OS1-1MO2O-003
Czaja, A
Atmospheric control on the thermohaline circulation

11:45–12:00; EGU2008-A-11904; OS1-1MO2O-004
Jeansson, E.; Olsson, K.A.; Tanhua, T.; Johannessen, T.
Recent changes in the Greenland Sea: Tracers and Hydrography

12:00 LUNCH BREAK

Chairperson: KANZOW, T.

13:30–13:45; EGU2008-A-01496; OS1-1MO3O-007
de Jong, MF; Drijfhout, SS; Hazeleger, W; van Aken, HM; Severijns, CA
Simulations of hydrographic properties in the north western North Atlantic Ocean in Global Climate Models

13:45–14:00; EGU2008-A-02189; OS1-1MO3O-006
Barnier, B.; Mathiot, P.; Chanut, J.; Peduff, T.; Molines, J. M.
Irminger Rings in the Labrador Sea: A heat pipe between the subsurface Western Boundary Current and the atmosphere?

14:00–14:15; EGU2008-A-10110; OS1-1MO3O-001
Sánchez Leal, R.F.; Ruiz-Villarreal, M.; González Pola, C.; Díaz del Río, G.; Cabanas, J.M.; Alonso, J.; Rodríguez, C.; González, N.; Lavín, A.
Distribution, spreading and variability of intermediate water masses in the Eastern North Atlantic and in the Bay of Biscay.

14:15–14:30; EGU2008-A-02239; OS1-1MO3O-002
Serra, N.; Ambar, I.
Direct velocity measurements of the Mediterranean Water outflow plume in the Gulf of Cadiz

14:30–14:45; EGU2008-A-02443; OS1-1MO3O-003
Joyce, T.; Thomas, L.; Bahr, F.
Wintertime Oceanic Convection in the Gulf Stream: looking beyond 1-D physics

14:45–15:00; EGU2008-A-06524; OS1-1MO3O-005
Hüttl, S.; Böning, CW
Pathways and variability of the off-equatorial undercurrents in the tropical Atlantic Ocean

15:00 COFFEE BREAK

Chairperson: JOYCE, T.

17:45–18:00; EGU2008-A-03166; OS1-1MO5O-004
Stramma, L.; Visbeck, M.; Johnson, G.C.; Firing, E.; Brandt, P.
The oxygen minimum zones in the eastern tropical oceans (solicited)

18:00–18:15; EGU2008-A-08111; OS1-1MO5O-006
von Schuckmann, K.; Brandt, P.; Eden, C.
Generation of Tropical Instability Waves in the Atlantic Ocean

18:15–18:30; EGU2008-A-11215; OS1-1MO5O-001
Kirchner, K.; Rhein, M.; Mertens, C.; Böning, C.W.; Hüttl, S.
The upper ocean MOC return flow near the Caribbean Sea
OS2 Open session on Shelf Seas, Coastal Seas, and Estuaries (co-listed in BG & NP) – Posters

Convener: van der Molen, J.
Co-Conveners(s): de Swart, H., Valle-Levinson, A.
Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 08:30–10:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0552; EGU2008-A-00223; OS2-1MO1P-0552
Bellafiore, D.; Umgießer, G.
Small scale coastal processes in the Northern Adriatic Sea - Modeling as a tool

XY0553; EGU2008-A-01474; OS2-1MO1P-0553
Chrastansky, CA; Callies, UC
Hydrodynamic modeling to support the evaluation of wind related signals in North Sea beached bird survey data

XY0554; EGU2008-A-01889; OS2-1MO1P-0554
Rosentraub, Z.
The seasonal circulation over the Israeli continental shelf and slope

XY0555; EGU2008-A-03741; OS2-1MO1P-0555
Cancet, M.; Birol, F.; Lyard, F.
Regional comparison of sea level time series from altimetry and tide gauges in the Northwestern Mediterranean Sea.

XY0556; EGU2008-A-03862; OS2-1MO1P-0556
van Haren, H.; Gostiaux, L.; Laan, M.
Tidal fronts above Great Meteor Seamount and evidence of associated sediment resuspension.

XY0557; EGU2008-A-08047; OS2-1MO1P-0557
Ross, O.N.; Sharples, J.
Modelling Turbulence and Phytoplankton Motility in a stratified Shelf Sea

XY0558; EGU2008-A-08245; OS2-1MO1P-0558
Oliveira, A.; Santos, A.; Rodrigues, A.; Vitorino, J.
Fine sedimentary sources to the Nazaré canyon (Portuguese continental shelf)

XY0559; EGU2008-A-08571; OS2-1MO1P-0559
Bogunovic, B.; Malacic, V.
Circulation in the Gulf of Trieste: measurements and model results

XY0560; EGU2008-A-08587; OS2-1MO1P-0560
Rascle, N.; Arduinu, F.; Chapron, B.
Wave-current interactions in three dimension: from the shelf to the surf zone

XY0561; EGU2008-A-08652; OS2-1MO1P-0561
Hansen, C.; Büchmann, B.
The influence of sea floor drag on tidal amplitude and phase in the eastern North Sea

XY0562; EGU2008-A-08837; OS2-1MO1P-0562
Criado-Aldeaneuva, F.; Sanchez-Roman, A.; García-Lafuente, J.; Del Río-Vera, J.; Sanchez, J.C.; Zunino, P.
Seasonal variations of the surface circulation in the Gulf of Cadiz, SW Iberia

XY0563; EGU2008-A-10076; OS2-1MO1P-0563
Navrotsky, V.V.; Liapidevsky, V.Yu.; Pavlova, E.P.
Internal wave transformation and effects in a near-bottom thermocline

XY0564; EGU2008-A-10143; OS2-1MO1P-0564
Martins, I; Silva, A; Santos, A; Bastos, L
Assessing critical runoff values for the generation of a buoyancy induced coastal current off the western Iberian Peninsula

XY0565; EGU2008-A-10209; OS2-1MO1P-0565
Silva, A; Martins, I; Bastos, L
An intermittent coastal current generated by buoyancy and wind forcing

XY0566; EGU2008-A-10322; OS2-1MO1P-0566
Chernov, A.G.; Kurkin, A.A.; Kovalev, D.P.; Lukhnov, A.O.; Shevchenko, G.V.
Instrumental water level measurements in the Sea of Okhotsk shelf and analysis of the results

XY0567; EGU2008-A-10373; OS2-1MO1P-0567
Chernov, A.G.; Kurkin, A.A.; Lukhnov, A.O.; Kuznetsov, K.I.
Sakhalin island coastal zone wave dynamics under the ice: in-situ measurements and observed data analysis

XY0568; EGU2008-A-10619; OS2-1MO1P-0568
Sánchez Leal, R.F.; Relvas, P.; Miller, P.; Martinho, A.
An upwelling filament west of Cape St. Vincent: An upwelling filament west of Cape St. Vincent in late October 2004

XY0569; EGU2008-A-11043; OS2-1MO1P-0569
Dzierzbucka, L.D.; Osiński, R.O.; Jędrasik, J.J.; Mas’owska, W.M.; Jakacki, J.J.
Interannual and decadal variability of the currents in the Baltic Sea

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0570; EGU2008-A-00441; OS2-1MO2P-0570
Garnier, R.; Dodd, N.; Calvete, D.; Falques, A.
Nonlinear modelling of nearshore sand bars from self organization processes: a 'Global Analysis'

XY0571; EGU2008-A-01409; OS2-1MO2P-0571
de Swart, H. E.; Vis-Star, N. C.; Calvete, D.
Limited predictability properties of modelled sand ridges on the inner shelf

XY0572; EGU2008-A-01785; OS2-1MO2P-0572
Lettmann, K.; Wolff, J.O.
Investigation of the impact of winter storms on sediment dynamics in the East-Frisian Wadden Sea (southern North Sea) using the numerical model GETM

XY0573; EGU2008-A-02777; OS2-1MO2P-0573
ter Brake, M.C.; Schutteelaars, H.M.
Importance of topographically induced sediment fluxes on equilibrium bed profiles and their linear stability in tidal embayments

XY0574; EGU2008-A-04005; OS2-1MO2P-0574
Pleskachevsky, A.; Gayer, G.; Günther, H.; Rosenthal, W.; Stanev, E.
Dynamic of Suspended Particulate Matter on tidal flats. Modelling study for the German Wadden Sea

XY0575; EGU2008-A-08614; OS2-1MO2P-0575
Bellec, V.; Dolan, M.; Boë, R.; Ottesen, D.; Rise, L.
Elongated ridges and depressions on glacial banks and troughs offshore north Norway: Modern or old features?
The role of “social calibration” in the verification of a hydrodynamic model of Cork Harbour

van den Berg, N.; Falqués, A.; Ribas, E.; Ojeda, E.; Guillén, J.

Modelling observed shoreline dynamics of an embayed beach in Barcelona

Barry, K.; O’Kane, J.P.; Rodríguez-Santana, A.; Cisneros-Aguirre, J.; Martínez-Marrero, A.

Stratification and mixing processes in presence of estuarine signals and internal near-inertial waves

Santos, A.L.; Balsinha, M.J.; Oliveira, A.

Observations of internal waves in the Saint John River Estuary New Brunswick, Canada

Aguir-González, M. B.; Rodríguez-Santana, A.; Cisneros-Aguirre, J.; Martínez-Marrero, A.

The present climate changes open wide frontiers to study ancient viruses

Toparceanu, F.; Negoita, T.G.; Nita, I.I.; Sava, D.

Nonlinear controls of anchovy stock and anchovy-gelatinous zooplankton community in the Black Sea: A modeling study

Salihoglu, B.; Oguz, T.; Fach, B.

Climate impacts on marine biogeochemistry in an Earth system model (solicited)

Vichi, M.; Patara, L.; Masina, S.; Fogli, P.G.; Manzini, E.

The response of marine biogeochemistry to atmospheric CO2 increase: simulations with a coupled Earth System Model (solicited)

Mouchet, A.; Loure, M.F.; Fichefet, T.; Goosse, H.; Huybrechts, P.

Ocean biogeochemical cycles and climate sensitivity in an Earth System model

Sempere, R.; Tedetti, M.; Charriere, B.; Para, J.

Molecular distribution of dicarboxylic acids and related polar compounds in the Rhone River and coastal Mediterranean Sea Water in relation with Photochemical and bacterial processes

Sanders, R.; Salter, I.; Pollard, R.; Statham, P.; Lucas, M.

Carbon export from an iron fertilised plankton bloom in the Southern Ocean

Cavagna, A.-J.; Cassar, N.; Dehairs, F.; DiFiore, P.J.; Tilbrook, B.; Griffiths, B.; Elskens, M.

Summer f-ratios and net community production in the Australian sector of Southern Ocean: contrasting regimes of nutrient availability and ecosystems functioning

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OS11 Open session on IMBER/SOLAS and sensitivity of marine ecosystems to climate change (co-listed in BG, CL & SSP) – Posters

Convenor: Robinson, C.
Co-Conveners(s): Salihoglu, B., Ozguz, T., Lancelot, C.
Display Time: Monday, 08:00–09:30
Authors in Attendance: Monday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: LANCELOT, C; SALIHOGLU, B

XY0582; EGU2008-A-07330; OS11-1MO2P-0582

Sempéré, R.; Durrieu de Madron, X.; Guieu, C.
Presentation of the Marine Ecosystems Response in the Mediterranean Experiment programme (MERMEX) for the Mediterranean Sea

XY0583; EGU2008-A-09236; OS11-1MO2P-0583

Guieu, B.; Pulido-Villena, P.; Dulac, F.; Ridame, C.; Pondaven, P.; Loye-Piot, I.; Bergametti, B.; Desboeuf, D.; Losno, L.
DUNE (a DUst experiment in a low Nutrient, low chlorophyll Ecosystem): Presentation of the project and results from its pilot phase

XY0584; EGU2008-A-10435; OS11-1MO2P-0584

Salihoglu, B.; Garcon, V.; Ochsies, A.; Lomas, M.
Controls on nutrient dynamics and carbon export at BATS

XY0585; EGU2008-A-11703; OS11-1MO2P-0585

Fach, B.; Salihoglu, B.; Ozguz, T.
Environmental influence on anchovy eggs and larvae transport in the Black Sea: a modeling study

XY0586; EGU2008-A-02025; OS11-1MO2P-0586

La Ferla, R.; Azaro, M.; Caruso, G.; Maimone, G.; Monticelli, L.S.; Zacccone, R.
Investigating microbial parameters for the characterization of biogeochemical variability in the Mediterranean sea

XY0587; EGU2008-A-02080; OS11-1MO2P-0587

González, A.; Santana-Casiano, J.M.; González-Dávila, M.
Oxidation kinetic of Fe(II) in the presence of exudates from phytoplankton cultures

XY0588; EGU2008-A-03867; OS11-1MO2P-0588

Glessmer, M.; Eden, C.; Ochsies, A.
Contribution of oxygen minimum zone waters to the coastal upwelling off Mauritania

XY0589; EGU2008-A-03983; OS11-1MO2P-0589

Kettle, A.J.; Bakker, D.C.; Haines, K.
Impact of the North Atlantic Oscillation on the trans-Atlantic migrations of the European eel (Anguilla anguilla)

XY0590; EGU2008-A-05758; OS11-1MO2P-0590

Changes in C37 alkenones flux recorded in surface sediment on the eastern continental shelf of the Bering Sea: record of Emiliana huxleyi bloom over the past 100 years

XY0591; EGU2008-A-06544; OS11-1MO2P-0591

Beloumis, M.; Mouchet, A.; Beckers, J.M.
Modelling the carbon cycle in the Mediterranean sea

XY0592; EGU2008-A-08505; OS11-1MO2P-0592

Impact of sub-mesoscale physics on the biogeochemical equilibrium of idealized oceanic gyres

XY0593; EGU2008-A-09278; OS11-1MO2P-0593

Production and sea-air flux of nitrous oxide

XY0594; EGU2008-A-09613; OS11-1MO2P-0594

Vidal, M.; Morgui, J.-A.; Emelianov, M.; Vila, G.; Latasa, M.; Salat, J.
Mesopelagic respiration in the NW Mediterranean as a component of the efficiency of the carbon pump.

XY0595; EGU2008-A-10801; OS11-1MO2P-0595

Climatological effects on the breeding of terns

XY0596; EGU2008-A-10895; OS11-1MO2P-0596

Pshikhen, I.; Gros, V.; Blumh, K.; Zoellner, E.; Martino, M.; Röttgers, R.; Sarda-Esteve, R.
Carbon monoxide emissions by phytoplankton off the Mauritanian coast.

XY0839; EGU2008-A-12495; OS11-1MO2P-0839

Álvarez, M.; Brea, S.; Álvarez-Salgado, X.A.
Oxygen utilization rates and C:N molar ratios in the South Atlantic: a new methodology approach

IS46 - OS17/SM20 Running hot and cold: integrated studies of large to small scale fluid venting in the SW Pacific: Subduction Processes, Methane Seepage, Hydrothermalism (co-organized by OS & SM; co-listed in BG & GMPV)

Conveners: Greinert, J.
Co-Conveners(s): Leybourne, M., Bialas, J.
Lecture Room 4
Chairperson: N.N.
8:30–8:45; EGU2008-A-05597; IS46 - OS17/SM20-1MO10-001
Contrasting examples of submarine hydrothermal venting along the Kermadec intraoceanic arc and the Aeolian island arc (solicited)

8:45–9:00; EGU2008-A-08802; IS46 - OS17/SM20-1MO10-002
Mertens, C.; Walter, M.; Sulkenfuß, J.; Rhein, M.
Fluxes of heat and volume at the 5° S vent sites on the MAR

9:00–9:15; EGU2008-A-11142; IS46 - OS17/SM20-1MO10-003
Hydrogen is an energy source for endosymbiotic bacteria of the vent mussel Bathymodiolus puteoserpentis

9:15–9:30; EGU2008-A-01416; IS46 - OS17/SM20-1MO10-004
Greinert, J.; Bialas, J.
An overview of latest cold seep research around New Zealand (2006 and 2007)

10:00 COFFEE BREAK
Chairperson: N.N.

10:30–10:45; EGU2008-A-08542; IS46 - OS17/SM20-1MO2O-001
Coffin, R; Hamdan, L; Smith, J; Gardner, J; Hagen, R; Wood, W
Comparative analysis of vertical geochemical profiles in methane charged marine sediments

10:45–11:00; EGU2008-A-01611; IS46 - OS17/SM20-1MO2O-002
Haeckel, M.; Sommer, S.; Linke, P.
Porewater geochemistry and methane fluxes of cold seeps at the Hikurangi margin, offshore New Zealand

11:00–11:15; EGU2008-A-04390; IS46 - OS17/SM20-1MO2O-003
Faure, K; McGinnis, D.F.; Schneider von Deimling, J.; Greinert, J.
Submarine flatulence along the Hikurangi margin of New Zealand: Linking geochemical methane anomalies in the water column with hydroacoustic evidence of bubble transport

11:15–11:30; EGU2008-A-01093; IS46 - OS17/SM20-1MO2O-004
Law, C.S.; Nodder, S.D.; Maas, E.; Mountjoy, J.; Marinier, A.; Orpin, A.; Barnes, P.M.
Cold seeps as methane sources in Cook Strait, New Zealand: effects of lateral and vertical processes on regional methane budgets

11:30–11:45; EGU2008-A-10660; IS46 - OS17/SM20-1MO2O-005
Thurber, AR; Levin, LA; Baco, A; Smith, CR; Rowden, AA; Bowden, D; Kroeger, K
Metazoan use of chemosynthetic food sources at New Zealand cold seeps

11:45–12:00; EGU2008-A-02387; IS46 - OS17/SM20-1MO2O-006
Sommer, S.; Linke, P.; Pfannkuche, O.; Bowden, D.A.; Haeckel, M.; Greinert, J.; Thurber, A.R.
Novel cold seep habitat along the Hikurangi margin (New Zealand)

12:00 END OF SESSION

IS46 - OS17/SM20 Running hot and cold; integrated studies of large to small scale fluid venting in the SW Pacific: Subduction Processes, Methane Seepage, Hydrothermalism (co-organized by OS & SM; co-listed in BG & GMPV) – Posters
Convener: Greinert, J.
Co-Conveners(s): Leybourne, M., Bialas, J.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0598; EGU2008-A-03217; IS46 - OS17/SM20-1MO3P-0598
Jones, A.T.; Greinert, J.; Bowden, D.; Klaucke, I.; Petersen, J.; Netzeband, G.; Weinrebe, W.
Integrated side-scan, sub-bottom profiler and seismic signatures of methane seepage from Omakere Ridge on New Zealand’s Hikurangi margin.

XY0599; EGU2008-A-03280; IS46 - OS17/SM20-1MO3P-0599
Crutcheley, G.; Gorman, A.; Pecher, I.; Henrys, S.
Full-waveform inversion of bottom-simulating reflections and anomalies in the regional gas hydrate stability zone beneath Porangahau Ridge, New Zealand

XY0600; EGU2008-A-03771; IS46 - OS17/SM20-1MO3P-0600
Analysing cold vents – an example from Wairarapa offshore New Zealand

XY0601; EGU2008-A-04076; IS46 - OS17/SM20-1MO3P-0601
Pseudo 3-D analysis of seismic data at seep locations in the Wairarapa area offshore New Zealand

XY0602; EGU2008-A-06150; IS46 - OS17/SM20-1MO3P-0602
Gorman, A.; Senger, K.
Are there any gas hydrates on the passive continental margins of New Zealand?

XY0603; EGU2008-A-07403; IS46 - OS17/SM20-1MO3P-0603
Linke, P.; Sommer, S.; McGinnis, D.
Physical limitations of dissolved methane fluxes: The role of bottom-boundary layer processes

XY0604; EGU2008-A-04966; IS46 - OS17/SM20-1MO3P-0604
Miocene cold seeps and their plumbing systems. New Zealand: Ancient analogues for the modern Hikurangi Margin seep system?

XY0605; EGU2008-A-10760; IS46 - OS17/SM20-1MO3P-0605
Liebetrau, V.; Eisenhauer, A.; Linke, P.
Cold-See Carbones and Cold-Water Corals from the Hikurangi Margin, offshore New Zealand (Cruise So191): Growth Structures, Fluid Pathways and first Isotope Geochemical Results

XY0606; EGU2008-A-09283; IS46 - OS17/SM20-1MO3P-0606
Martin, R.A.; Torres, M.; Klinkhammer, G.; Campbell, K.A.; Nesbitt, E.A.; Sommer, S.
The effects of methane-influenced pore-waters on benthic foraminiferal assemblages from the Hikurangi Margin of eastern New Zealand.

XY0607; EGU2008-A-09396; IS46 - OS17/SM20-1MO3P-0607
Niemann, H; Teute, T; Wegener, G; Santillano, D; Anrads, J; Boetius, A; Pfannkuche, O; Linke, P
Microbial methane consumption at cold seeps of the Hikurangi Margin (South-West Pacific, New Zealand)
McGinnis, D.F.; Faure, K.; Schneider von Deimling, J.; Greinert, J.
Physical properties of methane-enriched plumes along the Hikurangi margin of New Zealand: Thoughts on sources and life spans of water column methane anomalies

Holzner, C. P.; Kipfer, R.
Helium isotope signals observed in active methane seepage areas in the Black Sea and in the Pacific

Gennerich, H.-H.; Villinger, H.
Data and first results from Longtime Environmental Monitoring at the Logatchev Hydrothermal Field

Perner, M.; Strauss, H.; Seifert, R.
Diversity and function of microorganisms from ultramafic- and basalt-hosted vent systems on the Mid-Atlantic Ridge

Subduction and backarc spreading structures along the Kermadec trench from wide-angle seismic data

Fink, D.; Borowski, C.; Neu, T.; Dubilier, N.
Biological response on change of hydrothermal fluid flow: quantification of bacterial endosymbionts in Bathymodiolus putoeserpentis using 3D image analyses

Walter, M.; Mertens, C.; Stöber, U.; Rhein, M.
Mixing, internal waves, and plume dispersal at the Nibolugen hydrothermal site, southern MAR

Hensch, M.; Hort, M.; Winter, S.; Dahm, T.; Dehghani, A.; Hübscher, C.; the EGELADOS working group
First results of the Ocean-Bottom-Seismometer and -Tiltmeter experiment at Columbo submarine volcano (Aegean Sea, Greece)

Explosive volcanism on the ultraslow-spreading Gakkel Ridge, Arctic Ocean

Calcara, M.; Mazzei, F.
Geochemical monitoring of submarine volcanic environment: example and future perspectives

IS74 - OS18/SM21 Submarine volcano observation and monitoring (co-organized by OS & SM; co-listed in GMPV) – Posters
Convener: Riedel, C.
Co-Convener(s): Hensch, M., Schlindwein, V.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.
XY0621; EGU2008-A-05148; IS73 - OS18/SM21-1MO4P-0621
Mapping of emanating region of hydrothermal plumes in the Iheya-North knoll volcanic complex on the Okinawa-Trough back-arc rifting center

XY0622; EGU2008-A-05795; IS73 - OS18/SM21-1MO4P-0622
Zhang, CY; Ni, SD
Detection of earthquake swarm associated with volcanism in Southwest Indian Ocean

XY0623; EGU2008-A-06733; IS73 - OS18/SM21-1MO4P-0623
D’Alessandro, A.; D’Anna, G.; Luzio, D.; Mangano, G.
Polarization and high resolution parametric spectral analysis applied to the seismic signals recorded on the Marsili submarine volcano

XY0624; EGU2008-A-08690; IS73 - OS18/SM21-1MO4P-0624
De Santis, A.; MARSILI GEOSTAR3 TEAM
Geophysical exploration of the Marsili volcanic seamount: the ORION-GEOSTAR3 long-term experiment (solicited)

XY0625; EGU2008-A-11741; IS73 - OS18/SM21-1MO4P-0625
O’Mongain, A; Ottemoller, L; Baptie, B; Galloway, D; Booth, D
Seismic activity associated with a probable submarine eruption near Tristan da Cunha, July 2004-July 2006

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**Tuesday**

OS1 Open Session on Ocean Circulation and Water Masses (including Outstanding Young Scientist Award Lecture) – Posters

Convener: Steinfeldt, R.
Co-Convener(s): Kanzow, T., Joyce, T.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: STEINFELDT, R.

**XY0449; EGU2008-A-01921; OS1-1TU3P-0449**
Rubechena, A.
Interrelation of polynyas of Siberian shelf seas and thermohaline characteristics in Fram Strait

**XY0450; EGU2008-A-01191; OS1-1TU3P-0450**
Reinertsen Langehaug, H.; Falck, E.
Interannual variations of the water masses in the Fram Strait

**XY0451; EGU2008-A-11905; OS1-1TU3P-0451**
Olsson, K.A.; Jeansson, E.; Messias, M-J.; Kasajima, Y.; Johannessen, T.
Pathway and mixing of Greenland Sea water to the Faroe area and the Iceland Basin

**XY0452; EGU2008-A-08446; OS1-1TU3P-0452**
Rodehake, C; Serra, N; Quadfasel, D; Käse, R
Nordic Seas’ Overflow and its dependence on the interplay between hydraulic control and atmospheric forcing

**XY0453; EGU2008-A-07768; OS1-1TU3P-0453**
Jungclaus, J.H.; Zhu, X.H.
Impact of overflow variability on the gyre and overturning circulation

**XY0454; EGU2008-A-04250; OS1-1TU3P-0454**
Serra, N.; Köhl, A.; Stammer, D.
Estimating the circulation of the North Atlantic via data syntheses: preliminary testing results

**XY0455; EGU2008-A-00926; OS1-1TU3P-0455**
Levemann, A.; Born, A.
Bistability of the Atlantic subpolar gyre in a coarse-resolution climate model

**XY0456; EGU2008-A-01481; OS1-1TU3P-0456**
Günnewig, P.; Kieke, D.; Rhein, M.
Evolution of properties related to ULSW formation during winters 2005-2007

**XY0457; EGU2008-A-10173; OS1-1TU3P-0457**
Kieke, D.; Rhein, M.
Reconstruction of CFC inventories from hydrographic data

**XY0458; EGU2008-A-08029; OS1-1TU3P-0458**
Gaillard, F.; Melet, A.
Interannual to decadal variability of the North Atlantic intermediate waters over the last 30 years

**XY0459; EGU2008-A-06835; OS1-1TU3P-0459**
Leconte, A.; Penduff, T.; Barnier, B.; Greiner, E.
North Atlantic large-scale 1992-2001 variability in five ocean hindcasts and one reanalysis

**XY0460; EGU2008-A-06612; OS1-1TU3P-0460**
O’Neill, C.K.; Shapiro, G.I.; Lavender, S.
Modelling dense water cascading at Rockall Bank

**XY0461; EGU2008-A-09054; OS1-1TU3P-0461**
Ullgren, J; White, M
Interaction of MOW and SAFW in the southern Rockall Trough

**XY0462; EGU2008-A-03272; OS1-1TU3P-0462**
Gusev, A.; Bagno, A.; Diansky, N.; Moshonkin, S.
Bottom Currents in Straits as a Source of Atlantic Water Masses

**XY0463; EGU2008-A-02847; OS1-1TU3P-0463**
Comas-Rodríguez, I.; Hernández-Guerra, A.; Velez-Belchí, P.
Mass transport of the North Atlantic meridional overturning circulation using hydrographic data and Arg velocity measures

**XY0464; EGU2008-A-04223; OS1-1TU3P-0464**
Kanzow, T.; Bryden, H.; Bingham, R.; Hughes, C.; Cunningham, S.
Large-scale mass and transport fluctuations in the North Atlantic at daily and seasonal time scales

**XY0465; EGU2008-A-08883; OS1-1TU3P-0465**
Chidichimo, M. P.; Kanzow, T.; Cunningham, S. A.; Marotzke, J.
Eastern boundary baroclinic variability and the meridional overturning circulation at 26.5˚N

**XY0466; EGU2008-A-11293; OS1-1TU3P-0466**
Heimbach, P.; Hill, C.; Utke, J.
Examining the relationship of the response of North Atlantic ocean heat, salt, and volume circulations to perturbations - a multi-decadal adjoint sensitivity study (cancelled)

**XY0467; EGU2008-A-10691; OS1-1TU3P-0467**
Zanna, L.; Heimbach, P.; Moore, A.M.; Tziperman, E.
Non-normal dynamics of the Atlantic ocean circulation in an idealized GCM

**XY0468; EGU2008-A-06552; OS1-1TU3P-0468**
Hüttl, S
Influence of the MOC on the tropical Atlantic circulation

**XY0469; EGU2008-A-08890; OS1-1TU3P-0469**
Kühnel, D.; Rhein, M.; Sültenfuss, J.
Upwelling rates at the Tropical Atlantic inferred from helium isotope and wind-stress data
Evolution of Ekman pumping velocity along the western Iberian Peninsula from 2000 to 2006

Zuo, H.; Naveira Garabato, A.; New, A.; Oschlies, A.  
An isopycnic model study of the circulation of Sub-Antarctic Mode Water throughout the global ocean

deCastro, M; Gómez-Gesteira, M; Alvarez, I; Iglesias, I.  
Upwelling trends along the Canary Upwelling System from 1967 to 2006

Gesteira, J.L.C; Crespo, A.J.C.  
Upwelling trends along the Canary Upwelling System from 1967 to 2006

Zuo, H.  
An isopycnic model study of the circulation of Sub-Antarctic Mode Water throughout the global ocean

Demidov, A.N.; Morozov, E.G.; Dobrolyubov, S.A.  
Bottom water structure and its temporal variability in the Equatorial and South Atlantic

Tarakanov, R. Yu.  
Geostrophic currents and water masses in the Drake Passage

Evolution of Ekman pumping velocity along the western Iberian Peninsula from 2000 to 2006

Simpson, J.H.  
Developing understanding of the shelf seas and their role in the global ocean (Fridtjof Nansen Medal Lecture) (solicited)

Grabemann, I.; Weisse, R.  
Expected future changes in North Sea wave conditions due to anthropogenic climate change

Witting, M.; Wehmeyer, C.  
Medium-term morphodynamic modelling of mud and sand in the tidal basin Jadebusen

Warner, J. C.; Sullivan, C. M.; Voulgaris, G.; Work, P.  
Effect of storms on inner-shelf sediment transport in Long Bay, South Carolina

Calvete, D.; Falques, A.; de Swart, H.E.; Dodd, N.; Ribas, F.; Garnier, R.  
The role of the depth-averaged concentration in coastal morphodynamics

Stanev, E. V.  
Sediment Dynamics in Tidal Basins: From Individual Processes to State Estimates (solicited)

van der Molen, J.; Bolding, K.; Mills, D.K.  
A hybrid Method to model suspended Particulate Matter Concentrations in Shelf Seas

Morozov, E.  
Strong internal tides in the Kara Strait

van der Molen, J.; Bolding, K.; Mills, D.K.  
A hybrid Method to model suspended Particulate Matter Concentrations in Shelf Seas

Gräwe, U.; Ribbe, J.; Wolff, J.-O.  
Hydro- and Sedimentdynamics in the East-Frisian Wadden Sea

Wolff, J.-O.  
Hydro- and Sedimentdynamics in the East-Frisian Wadden Sea

Chairperson: N.N.

10:30–11:15; EGU2008-A-01204; OS2-1TU20-001

11:15–11:30; EGU2008-A-03610; OS2-1TU20-002

11:30–11:45; EGU2008-A-01420; OS2-1TU20-003

12:00 LUNCH BREAK

13:30–13:45; EGU2008-A-03864; OS2-1TU30-001

13:45–14:00; EGU2008-A-00476; OS2-1TU30-002

14:00–14:30; EGU2008-A-03123; OS2-1TU30-003

14:30–14:45; EGU2008-A-04683; OS2-1TU30-004

14:45–15:00; EGU2008-A-04514; OS2-1TU30-005

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-01536; OS2-1TU40-001

15:45–16:00; EGU2008-A-04075; OS2-1TU40-002

16:00–16:15; EGU2008-A-02290; OS2-1TU40-003

Gräwe, U.; Ribbe, J.; Wolff, J.-O.  
The inverse nature of an Australian bay
16:15–16:30; EGU2008-A-02805; OS2-1TU4O-004
GERKEMA, T.; van Haren, H.
Internal tides and energy fluxes over Great Meteor Seamount (solicited)

16:30–16:45; EGU2008-A-03686; OS2-1TU4O-005
Howlett, E.; Howarth, J.; Rippeth, T.; Proctor, R.
Liverpool Bay: a coastal seas’ responses to winds, waves, tides and freshwater.

16:45–17:00; EGU2008-A-01685; OS2-1TU4O-006
Hall, R.; Huthnance, J.; Williams, R.
Mixing and dissipation of internal wave energy on a shelf slope

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-00716; OS2-1TU5O-001
de Brye, B.; Deleersnijder, E.; Gourgue, O.; de Brauwere, A.
Finite element modelling of the Scheldt estuary and the adjacent Belgian/Dutch coastal zone

17:45–18:00; EGU2008-A-07409; OS2-1TU5O-002
Colbo, K.; Hannah, C.; Greenberg, D.; Hay, A
Effects of stratification of the tide in the Bay of Fundy

18:00–18:15; EGU2008-A-07647; OS2-1TU5O-003
Numerical simulation of the bora-driven currents during different synoptic conditions above the Adriatic

18:15–18:30; EGU2008-A-01155; OS2-1TU5O-004
Thorpe, S.; Green, M.; Simpson, J.; Osborn, T.; Nimmo Smith, A.
Boils and turbulence in a weakly stratified shallow tidal sea

18:30–18:45; EGU2008-A-01597; OS2-1TU5O-005
Shi, J.Z.
The dispersal and mixing processes within the plume of the Changjiang River estuary: influences of the M2, S2, K1, and O1 tidal constituents in the flood and dry seasons

18:45–19:00; EGU2008-A-10343; OS2-1TU5O-006
PietrzaK, J.; de Boer, G.J.
Using the potential energy anomaly equations as a new diagnostic tool for coastal ocean modelling

19:00 END OF SESSION

OS12 Ocean Tracers and Anthropogenic CO2 (co-listed in CL, co-sponsored by EAG) – Posters

Convenor: Schlosser, P.
Co-Conveners: Wallace, D., GRUBER, N.
Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0484; EGU2008-A-08501; OS12-1TU3P-0484
Rodehacke, C.; Roether, W.; Hellmer, H.; Hall, T.
Temporal variations and trends of CFC11 and CFC12 surface-water saturations in Antarctic marginal seas: Results of a regional ocean circulation model

XY0485; EGU2008-A-07607; OS12-1TU3P-0485
Antropogenic CO2 and acidification in the Arctic Ocean

XY0486; EGU2008-A-09199; OS12-1TU3P-0486
Brown, P.; Schuster, U.; Watson, A.; Cunningham, S.; McDonagh, E.
The changing dynamics of the subtropical North Atlantic anthropogenic carbon sink

XY0487; EGU2008-A-11742; OS12-1TU3P-0487
Messias, M.-J.; Watson, A. J.; Brown, P.; Schuster, U.
Tracer-derived transit time distributions in the North Atlantic along 36°N and inferred anthropogenic carbon concentrations

XY0488; EGU2008-A-04462; OS12-1TU3P-0488
Brix, H.; Deutsch, C.
Oxygen and carbon variability in the upper water column: patterns and mechanisms

XY0489; EGU2008-A-04607; OS12-1TU3P-0489
Schneider, A.; Tanhua, T.; Klein, B.; Wallace, D.W.R
Anthropogenic CO2 in the Mediterranean Sea

XY0490; EGU2008-A-12500; OS12-1TU3P-0490
A higher storage of anthropogenic carbon in the Indian Ocean?

OS13 Time series observations at fixed points in the open ocean: Insights into the dynamics of our deep seas (co-listed in BG)

Convenor: Lampitt, R.
Co-Conveners(s): Knap, T.
Lecture Room 14
Chairperson: N.N.

8:30–8:45; EGU2008-A-05953; OS13-1TU1O-001
Send, U.; Weller, R
The global timeseries program OceanSITES

8:45–9:00; EGU2008-A-05793; OS13-1TU1O-002
Given, H.; Weller, R.; Delaney, J.; Orcutt, J.
Preliminary network design of the Ocean Observatories Initiative

9:00–9:15; EGU2008-A-10376; OS13-1TU1O-003
Church, M.; Karl, D.; Letelier, R.; Lukas, R.; Dore, J.; Bidigare, R.; Landry, M.
The Hawaii Ocean Time-series (HOT) program: 20 years of sustained ocean observations in the North Pacific Subtropical Gyre

9:15–9:30; EGU2008-A-08466; OS13-1TU1O-004
McPhaden, MJ; Meyers, G.; Ando, K.; Syamsudin, F.; Masumoto, Y.; Murty, VSN; Ravichandran, M; Vialard, J.; Yu, L.; Yu, W.
RAMA: Research Moored Array for African-Asian-Australian Monsoon Analysis and Prediction

9:30–9:45; EGU2008-A-08764; OS13-1TU1O-005
Lampitt, R.S.; EuroSITES
EuroSITES: Integrating Europe’s deep ocean observatories from the ocean interior to the seafloor and subseafloor

9:45–10:00; EGU2008-A-05755; OS13-1TU1O-006
Osburn, J.; Vernon, F.; Arrott, M.; Chave, A.; Krueger, I.; Schofield, O.; Peach, C.; Glenn, S.
Cyberinfrastructure for the US NSF Ocean Observatories Initiative

10:00 COFFEE BREAK
Chairperson: N.N.

10:30–10:45; EGU2008-A-09434; OS13-1TU2O-001

Osterhus, S.

Station M, the Eulerian Observatory of the Norwegian Sea

10:45–11:00; EGU2008-A-09182; OS13-1TU2O-002

Conte, M

The Oceanic Flux Program (OFP): A thirty-year continuous record of particle flux in the deep Sargasso Sea

11:00–11:15; EGU2008-A-02613; OS13-1TU2O-003

Coppola, L.; Marty, J.C.; Migon, C.; Guieu, C.; Miquel, J.C.; Chiaverini, J.; Leblond, N.; Dufour, A.; Desprez de Gésicourt, F.

DYFAMED Time Series: A synthesis of 20 years observation in the Ligurian Sea

11:15–11:30; EGU2008-A-09680; OS13-1TU2O-004

Miquel, J.C.; Martin, J.; Gasser, B.; Rodriguez-y-Baena, A.; Toubal, T.; Fowler, S.

Long-term study of settling particle flux and carbon export at the DYFAMED open sea station (Ligurian Sea, Northwestern Mediterranean)

11:30–11:45; EGU2008-A-07228; OS13-1TU2O-005

Wallace, DWR.

Cotrim da Cunha, L; Körtzinger, A; Visbeck, M; Karsten, J; Brandt, P; Santos, C; Melicio, O; Silva, P; Monteiro, I

The Tropical Eastern North Atlantic Time-Series Observatory at Cape Verde (TENATSO). Status and initial results from the ocean site.

11:45–12:00; EGU2008-A-08517; OS13-1TU2O-006

Larkin, K.E.; Hartman, S.E.; Lampitt, R.S.; Pagnani, M.R.; Gooday, A.J.; Körtzinger, A.; Billett, D.S.M

Biogeochemical time-series from the ocean interior to the seafloor at the Porcupine Abyssal Plain (PAP) Observatory (49°N, 16.5°W)

12:00 LUNCH BREAK

Lecture Room 3

Chairperson: N.N.

17:30–17:45; EGU2008-A-06240; OS13-1TU5O-001

Cardin, V.; Gacic, M.

Salinity increase and warming in the southern Adriatic between 2002-2006 as evidenced from a deep-sea mooring site

17:45–18:00; EGU2008-A-02615; OS13-1TU5O-002

Petihakis, G.; Nittis, K.; Ballas, D.; Pagonis, P.; Drakopoulos, P.

Eulerian Observations in Hellenic Seas

18:00–18:15; EGU2008-A-11693; OS13-1TU5O-003

Gehlen, M.

Eulerian observatories and a modeling perspective of pelagic-benthic coupling in the open ocean.

18:15–18:30; EGU2008-A-00024; OS13-1TU5O-004


Time-series observation for the biogeochemistry at station K2 in the northwestern North Pacific

18:30–18:45; EGU2008-A-01447; OS13-1TU5O-005

Weller, R.

Air sea coupling under the persistent stratus in the southeastern Pacific

18:45–19:00; EGU2008-A-06413; OS13-1TU5O-006

Nodder, S.; Boyd, P.; Chiswell, S.; Pinkerton, M.; Sutton, P.

Seasonal and interannual variability in oceanographic processes from time-series biophysical and biogeochemical data collection in subtropical and subantarctic waters off New Zealand, SW Pacific Ocean

19:00 END OF SESSION
OS15 Model development for large- and small-scale processes in the ocean (co-listed in NP)

Conveners: Deleersnijder, E.; Lermusiaux, P.; Schröter, J.

- Lecture Room 4
- Chairperson: PIETRZAK J.
- 8:30–8:45: EGU2008-A-11101; OS15-1TU1O-001
  - Convener(s): Lermusiaux, P., Schröter, J.
  - Convener: Deleersnijder, E.
  - Lecture Room 6
  - Chairperson: WHITE L.
  - 17:30–17:45: EGU2008-A-00737; OS15-1TU5O-001

- 8:45–9:00: EGU2008-A-10579; OS15-1TU4P-0504
  - Lavin, A.; Alonso, J.; Cabanas, J.M.; Díaz del Río, G.; González, N.; González-Pola, C.; Rodríguez, C.; Ruiz-Villarreal, M.; Sánchez Leaf, R.F.; Somavilla, R.
  - Spanish Deep Standard Section and (CO)VACLAN Projects: studying the variability of deep waters in the southern Bay of Biscay

- 9:00–9:15: EGU2008-A-10271; OS15-1TU4P-0503
  - Cianca, A.; Godoy, J.M.; Perez-Marrero, J.; Villagarcia, M.G.; Maroto, L.; Cardona, L.; Carrera, M.J.; Llinas, O.
  - Seasonal Chlorophyll-a concentration cycle and interannual variability at three subtropical ocean sites

  - Isopycnal mixing controls NADW stability in ocean models

- 9:30–9:45: EGU2008-A-03092; OS15-1TU1O-003
  - Sannino, G.; Carillo, A.; Rupolo, V.; Artale, V.
  - Impact of a two-way grid refinement at the Strait of Gibraltar on the thermohaline circulation of the Mediterranean Sea

- 9:45–10:00: EGU2008-A-00827; OS15-1TU1O-006
  - White, L.; Adcroft, A.; Hallberg, R.
  - High-order remapping schemes for generalized vertical coordinates in ocean models

- 10:00: COFFEE BREAK
OS6 Ocean Remote Sensing (co-listed in BG, CL, CR & GD)

Convener: MILLER, J.
Co-Conveners: Schrama, E., Barale, V., Han, G.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: MILLER, J.

11:00–11:15; EGU2008-A-10410; OS6-1WE2O-003
Pontes, M. T.; Bruck, M.
Satellite data for wave energy resource assessment

11:15–11:30; EGU2008-A-11717; OS6-1WE2O-004
Brusch, S.; Lehner, S.; Stellenfleth, J.-S.
SAR derived wind and wave ocean fields of mesoscale cyclones

11:30–11:45; EGU2008-A-07729; OS6-1WE2O-005
Le Dimet, F.X.; Souopgui, I.; Titaud, O.; Vidard, A.
Assimilation of Images in Numerical Models

11:45–12:00; EGU2008-A-06483; OS6-1WE2O-006
Sedlacek, S.; Ziemer, F.
Bottom stress estimation based on Radar Observed Currents

12:00 LUNCH BREAK

OS6 Ocean Remote Sensing (co-listed in BG, CL, CR & GD) – Posters

Convener: MILLER, J.
Co-Conveners: Schrama, E., Barale, V., Han, G.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: MILLER, J.

XY0618; EGU2008-A-11702; OS6-1WE4P-0618
Paturi, S.; Han, G.; de Young, B.
A 3-D Data-Assimilative Tidal Model of the Northwest Atlantic

XY0619; EGU2008-A-05391; OS6-1WE4P-0619
Pavlis, E. C.; Mertikas, S. P.
Absolute calibration of the JASON-1 altimeter from the GAVDOS project
15:00 COFFEE BREAK

Chairperson: TAMISIEA, M.

15:30–15:45; EGU2008-A-00975; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE4O-001
White, N.; Church, J; Gregory, J; Domingues, C
Extracting optimum value from the PSMSL sea-level data:
Combining tide gauge and satellite altimeter data (solicited)

15:45–16:00; EGU2008-A-00060; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE4O-002
Marcos, M.; Tsimpis, M.N.
The forcing of coastal sea-level rise patterns in the North Atlantic and the Mediterranean Sea

16:00–16:15; EGU2008-A-00989; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE4O-003
Hibbert, A.; Leach, H; Woodworth, P.L.; Hughes, C.W.
High latitude atmosphere-ocean coupling in sea-level records

16:15–16:30; EGU2008-A-10103; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE4O-004
Anzidei, M.; The Medchange team
Sea level changes and vertical land movements in the Mediterranean from paleo-historical indicators, modern instrumental data and model predictions

16:30–16:45; EGU2008-A-08013; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE4O-006
The Effect of Vertical Land Movement Data Sets on Estimates of Sea Level Rise around the UK

16:45–17:00; EGU2008-A-04385; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE4O-006
Chambers, D.; Nerem, R.S.; Willis, J.
The hunt for Ice-Melting Fingerprints in GRACE ocean data

17:00 COFFEE BREAK

Chairperson: JEVREJEVA, S.

17:30–17:45; EGU2008-A-00919; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE4O-005
Lowe, J.A.; Howard, T.; Horsburgh, K.
New projections of 21st century extreme sea levels around the United Kingdom coastline (solicited)

17:45–18:00; EGU2008-A-03055; IS48 -
OS21/CL3/HS12.1/NH6.5-1WE5O-002
International monitoring of glaciers and ice caps, and their contribution to present and potential sea level changes
18:00–18:15; EGU2008-A-03655; IS48 - OS21/CL3/HS12.1/NH6.5-1WE50-003
Katsman, C. A.; Vermeeren, L. L.; Hazeleger, W.; Drijfhout, S. S.; van Oldenborgh, G. J.
The Importance of Ocean Dynamics and Gravity Changes Induced by Ice Melt for Regional Scenarios of Sea Level Rise

18:15–18:30; EGU2008-A-05784; IS48 - OS21/CL3/HS12.1/NH6.5-1WE50-004
Watson, C.
Data archaeology: sea level change at Macquarie Island since Mawson’s 1912 expedition

18:30–18:45; EGU2008-A-03409; IS48 - OS21/CL3/HS12.1/NH6.5-1WE50-005
Bingham, R.J.; Hughes, C.W.
The relationship between sea-level and bottom pressure variability in an eddy permitting ocean model

18:45–19:00; EGU2008-A-10091; IS48 - OS21/CL3/HS12.1/NH6.5-1WE50-006
Lettrel, C.; Woppelmann, G.; Valladeau, G.; Lefèvre, F.
An improved absolute calibration of satellite altimeters using a globally distributed network of gps-corrected tide gauges

19:00 END OF SESSION

Thursday

OS4 Oceanography of semi-enclosed seas and regions of restricted exchange (co-listed in BG) – Posters

Conveners: Shapiro, G.
Co-Conveners: Papathanassiou, V.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0486; EGU2008-A-00408; OS4-1TH4P-0486
Falina, A.; Sarafanov, A.; Volkov, I.
Warm intrusions in the intermediate layer of the Black Sea eastern gyre interior

XY0487; EGU2008-A-01263; OS4-1TH4P-0487
Chubarenko, I.; Esiukova, E.; Hutter, K.
Littoral-pelagial water exchange due to differential coastal cooling

XY0488; EGU2008-A-01264; OS4-1TH4P-0488
Demchenko, N.; Chubarenko, I.
Thermal bar considered as the result of horizontal convection

XY0489; EGU2008-A-03379; OS4-1TH4P-0489
Suomi, L.; Andrejev, O.; Myrberg, K.
Parameterization of flow along sloping bottom in a hydrostatic z-coordinate model – Major Baltic Inflow 1993 as a test case (solicited)

XY0490; EGU2008-A-03510; OS4-1TH4P-0490
Sánchez-Román, A.; Sannino, G.; GOFIMA Group
Spatial distribution of tides in the Strait of Gibraltar

XY0491; EGU2008-A-03678; OS4-1TH4P-0491
Napolitano, E.; Iacono, R.; Carillo, A.; Sannino, G.; Artale, V.
Aspects of the mean winter and summer circulation of the Tyrhenian Sea.

OS4-1TH4P-0492
XY0492; EGU2008-A-03857; OS4-1TH4P-0492
Skiliris, N.; Mantziafou, A.; Sofianos, S.; Lascaratos, A.; Keramitsoglou, I.; Vlahopoulos, G.; Cartalis, C.; Paraskievopoulos, V.; Scoullos, M.
A study of the plankton ecosystem of the Aegean Sea using SeaWiFS data and a 3D coupled hydrodynamic/biological model

XY0493; EGU2008-A-05988; OS4-1TH4P-0493
Staneva, J.
Instabilities and thermohaline stratification at tidal mixing front: A case study for the German Bight

XY0494; EGU2008-A-06093; OS4-1TH4P-0494
Sannino, G.; Pratt, L.; Carillo, A.
Theoretical and numerical modelling study of the exchange flow regimes in the strait of Gibraltar.

XY0495; EGU2008-A-06441; OS4-1TH4P-0495
Bardouki, H.; Mara, P.; Avgoustidi, V.; Psarra, S.; Tselipides, A.; Michalopoulos, N.
The distribution of Demethylated Sulphur Species (DMSx) in the Eastern Mediterranean Sea: the Summer Paradox in the South Aegean Sea

XY0496; EGU2008-A-07600; OS4-1TH4P-0496
Kvaratskhelia, D.U.; Demetrasvili, D.I.
Numerical study of the turbulent characteristics of cyclonic and anticyclonic

XY0497; EGU2008-A-07979; OS4-1TH4P-0497
Hansson, D.; Gustafsson, E
Stagnation periods in the Baltic Sea since 1500

XY0498; EGU2008-A-08018; OS4-1TH4P-0498
Golenko, M.; Golenko, N.
Observation and modeling of the space water structure in the South-East Baltic

XY0499; EGU2008-A-08211; OS4-1TH4P-0499
Iovino, D.; Straneo, F.; Spall, M. A.
On the effect of a sill in dense water formation in a marginal sea

XY0500; EGU2008-A-08579; OS4-1TH4P-0500
Triantafyllou, G.; Petihakis, G.; Korres, G.; Tsiaras, K.; Pollani, A.; Banks, A.; Raisos, D.
A coastal management tool using ecological modeling and data assimilation in a semi-enclosed gulf of Greece (solicited)

XY0501; EGU2008-A-10198; OS4-1TH4P-0501
Hernández-Arcetibia, M.; Marrero-Díaz, A.; Rodríguez-Santana, A.; Sangrà, P.; Gordo, C.
Laboratory simulations of the surface circulation patterns in the Bransfield Strait (Antarctica)

OS5 Operational Oceanography (co-listed in CL, GI & NP)

Conveners: Proctor, R.
Co-Conveners: Rixen, M.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 08:00–19:30
Poster Area Halls X/Y
Chairperson: N.N.

XY0502; EGU2008-A-08789; OS5-1TH1O-001
Peggion, G.; Coelho, E.; Allard, R.; Rodriguez, E.
Real-time ocean predictions in support of naval operations
9:00–9:15; EGU2008-A-01213; OS5-1TH1O-003
Behrens, AB
Operational wave prediction of extreme storms in Northern Europe

9:15–9:30; EGU2008-A-06516; OS5-1TH1O-004
Evaluation of operational ocean forecasting in the Cyprus subregion

9:30–9:45; EGU2008-A-11692; OS5-1TH1O-005
Ramirez, R.; Morales, M.; Izurieta, I.; Saldana, S.; Veles, V.; Mejia, M.
Small scale operational oceanography in Zihuatanejo Bay, Mexico

9:45–10:00; EGU2008-A-07488; OS5-1TH1O-006
Sandven, S.; Johannessen, O. M.; Bobylev, L.; Dahlin, H.
Arctic Regional Ocean Observing System

10:00 COFFEE BREAK

Chairperson: N.N.
10:30–10:45; EGU2008-A-00985; OS5-1TH2O-001
Berutti, B.; Frerick, J.; Klein, U.; Mavrocordatos, C.; Nieke, J.; Stroede, J.
ESA's Operational Ocean Mission: The Sentinel 3 Payload

10:45–11:00; EGU2008-A-04392; OS5-1TH2O-002
Palazov, A.; Stefanov, A.; Bilashvili, K.; Stanchev, H.; Valcheva, N.
Building Black Sea VOS System

11:00–11:15; EGU2008-A-08709; OS5-1TH2O-003
An operational array for monitoring the Atlantic meridional overturning circulation at 26°N

11:15–11:30; EGU2008-A-09869; OS5-1TH2O-004
Cosoli, S.; Bolzon, G.; Mancero Mosquera, I.
Near-real time surface currents monitoring in the Northern Adriatic Sea

11:30–11:45; EGU2008-A-10291; OS5-1TH2O-005
Kreus, M.; Callies, U.; Petersen, W.
Combining FerryBox data and Lagrangian transport modelling

11:45–12:00; EGU2008-A-12386; OS5-1TH2O-006
Barrera, C.; Rueda, M.J.; Llinas, O.
ACOMAR Network: Real-Time Coastal Waters Monitoring in Canary Islands

12:00 LUNCH BREAK

Chairperson: N.N.
13:30–13:45; EGU2008-A-09549; OS5-1TH3O-001
Dobrynin, M.; Wahle, K.; Stanev, E.
Satellite data assimilation into a suspended particulate matter transport model

13:45–14:00; EGU2008-A-07560; OS5-1TH3O-002
Barth, A.; Alvera-Azcarate, A.; Zheng, L.; Weisberg, R.H.
A Nested Model of the West Florida Shelf: Assimilation of High-Frequency Radar Currents and study of Loop Current generated flow

14:00–14:15; EGU2008-A-07902; OS5-1TH3O-003
Tornfeldt Sørensen, J. V.; Erichsen, A. C.; Hansen, L. B.; Kronborg, M.; Larsen, J.
Water forecasts, data assimilation and validation

14:15–14:30; EGU2008-A-09616; OS5-1TH3O-004
Hoffman, R.; Ponte, R.; Kostelich, E.; Blumberg, A.; Sznuyogh, I.; Vinogradov, S.
Towards realistic data assimilation for the coastal ocean: Observing network sensitivity experiments in New York Harbor

14:30–14:45; EGU2008-A-07917; OS5-1TH3O-005
Onken, R.; Petersen, W.
Assimilation of FerryBox data in a circulation model of the North Sea

14:45–15:00; EGU2008-A-05078; OS5-1TH3O-006
Taillandier, V.; Dobricic, S.; Pinardi, N.
Assimilation of trajectories in an oceanographic 3D-VAR scheme

15:00 COFFEE BREAK

Chairperson: N.N.
17:30–17:45; EGU2008-A-12240; OS5-1TH5O-001
Andreu-Burillo, I.; Howarth, M.J.; Proctor, R.
Utilising the Liverpool Bay Coastal Observatory for uncertainty estimates

17:45–18:00; EGU2008-A-02294; OS5-1TH5O-002
Shriver, J.; Dykes, J.; Fabre, J.; Murphree, T.; Ford, B.; Chassignet, E.
Automation of operational ocean product metrics

18:00–18:15; EGU2008-A-11452; OS5-1TH5O-003
Müller, F.; Prenosil, Th.
Geographical Variation of the Predicted Forecast Skill

18:15–18:30; EGU2008-A-05185; OS5-1TH5O-004
Bonazzi, A.; Pinardi, N.; Milliff, R.F.; Wikle, C.K.; Berlinger, L.M
Short-term ocean ensemble forecasting as derived by surface wind perturbations; method evaluation and seasonal cycle of the ocean forecast uncertainty.

18:30–18:45; EGU2008-A-09108; OS5-1TH5O-005
Lea, D.; Haines, K.; Martin, M.
Model and observation bias correction in altimeter ocean data assimilation in FOAM

18:45–19:00; EGU2008-A-02176; OS5-1TH5O-006
Rixen, M.; THE DART TEAM
Operational oceanography in the coastal region using multi-model super-ensembles

19:00 END OF SESSION

OS5 Operational Oceanography (co-listed in CL, GI & NP) – Posters
Convener: Proctor, R.
Co-Convener(s): Rixen, M.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.
XY0502; EGU2008-A-01462; OS5-1TH4P-0502
Meyers, G.; Schulz, E.
Introducing the Australian Integrated Marine Observing System (IMOS)
A comparison between the results of free span rectification and pipeline side scan sonar surveying to improve the post-lay surveying of a laid pipe Case study: Two Pipelines on South Pars Gas field Phases 9 & 10, Persian Gulf

An optimized observational network design for USBL calibration via geodetic network robustness analysis as an offshore standard method Case study: calibration of Simrad HPR USBL

Side scan sonar image enhancement using wavelet analysis Case study: EdgeTech FS4200 digital side scan sonar image

Feasibility study of real-time correction of geometric distortion in side scan sonar images; Case study: EdgeTech 4200FS side scan sonar image

Characterizing discrepancies in SST representation between ocean model and remote sensing images by geostatistical means

Determining ocean correlation scales using Argo float data

Thermocline characterization on modeled and observed temperature profiles: a technique for model error evaluation

Rapid environmental assessment of the Balearic front

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y

Arctic climate variations in 20th century simulations: contributions from atmospheric and oceanic heat transport variations

10:00 COFFEE BREAK

Arctic climate variations in 20th century simulations: contributions from atmospheric and oceanic heat transport variations
11:15–11:30; EGU2008-A-09303; OS7-1TH2O-004
Adjoint analysis of the summer 2007 low in Arctic sea-ice area

11:30–11:45; EGU2008-A-08885; OS7-1TH2O-005
Gascard, J.-C.; Le Goff, H
Frazil ice formation in the Arctic Ocean observed during a transpolar drift in winter

11:45–12:00; EGU2008-A-07016; OS7-1TH2O-006
Döscher, R.; Wyser, K.; Meier, M.; Qian, M.; Broström, G.
Arctic Predictability and Sensitivity in a coupled numerical Model

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2008-A-10695; OS7-1TH3O-001
Polyakov, I.; Timokhov, L.; Ivanov, V.; Dmitrenko, I.; Kirillov, S.
Recent changes in the Arctic Ocean: Effects of climate change and long-term variability

13:45–14:00; EGU2008-A-09919; OS7-1TH3O-002
Karcher, M.; Beszczynska, A; Gerdes, R; Kauker, F; Heyen, S
Arctic Ocean warming and its overflow reduction potential

14:00–14:15; EGU2008-A-08882; OS7-1TH3O-003
Björk, G.B.; Ericksson, P.; Nilsson, J.
The passage of Canadian Basin Deep Water over the Lomonosov Ridge and through the Eurasian Basin of the Arctic Ocean: Results from the LOMROG-2007 ice breaker expedition.

14:15–14:30; EGU2008-A-05209; OS7-1TH3O-004
Steig, E.J.; Schneider, D.P.; Rutherford, S.D.; Mann, M.E.; Comiso, J.C.; Shindell, D.T.
Significant warming of West Antarctica in the last 50 years

14:30–14:45; EGU2008-A-09455; OS7-1TH3O-005
Turner, J
The role of anthropogenic forcing on the recent increase in Antarctic sea ice extent

14:45–15:00; EGU2008-A-11588; OS7-1TH3O-006
Ackley, S.; Lewis, M.; Weissling, B.; Wagner, P.
Sea ice mass balance in the Antarctic during austral spring

15:00 END OF SESSION

OS10 Variability in the Southern Ocean

Convener: Hellmer, H.
Co-Conveners: PARK, Y.
Lecture Room 4
Chairperson: HELLMER, H. H.

15:30–15:45; EGU2008-A-01549; OS10-1TH4O-001
Vivier, F.; Iudicone, D.; Busdraghi, F.; Park, Y.-H.
Analysis of a decade SST anomalies in the Southern Ocean: role of surface fluxes, lateral advection, and vertical processes (solicited)

15:45–16:00; EGU2008-A-01803; OS10-1TH4O-002
Lettman, K.; Olliers, D.
Barotropic and baroclinic processes in the transport variability of the Antarctic Circumpolar Current

16:00–16:15; EGU2008-A-08724; OS10-1TH4O-003
Roquet, F.; Park, Y.-H.; Madec, G.
The Fawn Trough Current across the Kerguelen Plateau: a bottleneck for the Antarctic Circumpolar Flow

16:15–16:30; EGU2008-A-04236; OS10-1TH4O-004
Elephant seals reveal Southern Ocean frontal structure and sea ice formation rates

16:30–16:45; EGU2008-A-09100; OS10-1TH4O-005
Le Sommer, J.; Barner, B.; Penduff, T.
Interannual variability of the Zapiola gyre: a potential vorticity flux perspective

16:45–17:00; EGU2008-A-06706; OS10-1TH4O-006
Lee, J.H.; Hong, C.S.; PARK, Y.-H.; Pang, I.C.
The variability of the volume transport across the Drake Passage

17:00 COFFEE BREAK

Chairperson: PARK, Y.-H.

17:30–17:45; EGU2008-A-10853; OS10-1TH5O-001
Quartly, G.D.; Gómez-Enri, J.; Navarro, G.
Linking surface and sub-surface variability in Drake Passage

17:45–18:00; EGU2008-A-00613; OS10-1TH5O-002
Santoso, A.; England, M. H.
Natural variability of Antarctic Bottom Water in a coupled climate model

18:00–18:15; EGU2008-A-01137; OS10-1TH5O-003
Hellmer, H. H.; Kauker, F.; Timmermann, R.
Circumpolar influence of Weddell Sea anomalies

18:15–18:30; EGU2008-A-06245; OS10-1TH5O-004
Nicholls, K.; Boehme, L.; Biuw, M.; Fedak, M.
Wintertime oceanographic data from the southern Weddell Sea using tagged Weddell seals

18:30–18:45; EGU2008-A-07103; OS10-1TH5O-005
Makinson, K.; Nicholls, K.W.; Abrahamson, E.P.
Recent summertime observations of interannual variability near the Filchner Sill and adjacent continental shelf

18:45–19:00; EGU2008-A-01139; OS10-1TH5O-006
Lefebvre, W.; Goosse, H.
The changes in Southern Ocean stratification projected for the 21st century (solicited)

19:00 END OF SESSION

OS14 Temporal variability of ocean temperature (heat content) and salinity (freshwater content) – Posters

Convener: Levitus, S.
Co-Conveners: Artale, V.; Rixen, M.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0518; EGU2008-A-05693; OS14-1TH4P-0518
Ciasto, L.M.; Thompson, D.W.
Reemergence of wintertime sea surface temperature anomalies in the extratropical South Pacific
Friday

OS4 Oceanography of semi-enclosed seas and regions of restricted exchange (co-listed in BG)

Convener: Shapiro, G.
Co-Conveners: Papathanassiou, V.
Lecture Room D
Chairperson: Shapiro, G.
8:30–8:45; EGU2008-A-01262; OS4-1FR1O-001
Chubarenko, I.
Baltic Sea cold intermediate layer: contribution of horizontal and intra-layer convection
8:45–9:00; EGU2008-A-03148; OS4-1FR1O-002
Gustafsson, E.; Omstedt, A.
Sensitivity of Baltic Sea deep water salinity and oxygen concentration to variations in physical forcing
9:00–9:15; EGU2008-A-07250; OS4-1FR1O-003
Golenko, N.; Melnikov, V.
Time-space scales of hydrophysical variability in the Baltic and Black seas (solicited)
9:15–9:30; EGU2008-A-01682; OS4-1FR1O-004
Adani, M.; Dobricic, S.; Pinardi, N.
Multi-decadal re-analysis for the Mediterranean Sea: methods and quality assessment
9:30–10:00; EGU2008-A-01682; OS4-1FR1O-005
Triantafyllou, G.; Tsiaras, K.; Korres, G.; Petihakis, G.; Kourafalou, V.; Raitsos, D.; Pollani, A.
Ecosystem modeling of the Mediterranean Sea. A study of the variability of N. Aegean using a very high resolution ecosystem model (solicited)
10:00 COFFEE BREAK

Chairperson: Papathanassiou, E.
10:30–10:45; EGU2008-A-08204; OS4-1FR2O-001
Supic, N.; Paschini, E.; Precali, R.; Russo, A.; Vilbic, I.
Two aspects of winter hydrographic conditions in the northern Adriatic
10:45–11:00; EGU2008-A-01682; OS4-1FR2O-002
Skiris, N.; Beckers, J.-M.
Modelling the Gibraltar Strait/West Alboran Sea ecohydrodynamics
11:00–11:15; EGU2008-A-07711; OS4-1FR2O-003
Linking a lower trophic ecosystem model with a bioenergetics model for European anchovy
11:15–11:30; EGU2008-A-08328; OS4-1FR2O-004
Malacic, V.; Petelin, B.
Climatic circulation of the Adriatic Sea modulated with tides
11:30–11:45; EGU2008-A-00996; OS4-1FR2O-005
Shapiro, G.I.; Aleynik, D.L.; Mee, L.D.
Long term trend in the sea surface temperature of the Black Sea
11:45–12:00; EGU2008-A-05239; OS4-1FR2O-006
Karageorgis, A.P.; Georgopoulos, D.
Hydrological Characteristics and Particulate Matter Dynamics in the NW Black Sea during October 2007
12:00 LUNCH BREAK

Lecture Room 2
Chairperson: Shapiro, G.
13:30–13:45; EGU2008-A-06328; OS4-1FR3O-001
Grayek, S.; Staney, E. V.
Modelling of Black Sea basic dynamics during 2002–2006
13:45–14:00; EGU2008-A-06595; OS4-1FR3O-002
Demetrasvili, D. I.; Kordazdze, A. A.
Dynamical processes in the Black Sea. Simulation and forecast.
14:00–14:15; EGU2008-A-04990; OS4-1FR3O-003
Knysh, V.V.; Ibrayev, R.A.; Ozsoy, E.; Inyushina, N.V.; Korotaev, G.K.
Seasonal Variability of the Caspian Sea Circulation (solicited)
14:15–14:30; EGU2008-A-03608; OS4-1FR3O-004
Al-Azri, A.; Al-Hashmi, K.; Sarma, Y.; Al-Habsi, H.; Al-Khulaibi, S.
The occurrence of potentially harmful algal blooms (HAB’s) in the Gulf of Oman in relation to environmental changes.
14:30–14:45; EGU2008-A-04019; OS4-1FR3O-005
Ocean-acoustic studies of shoaling solitary waves in South China Sea.
14:45–15:00; EGU2008-A-01767; OS4-1FR3O-006
Park, M.; Kang, S.; Lantoine, F.; Chang, K.; Ishizaka, J.
Characteristics of phytoplankton community in East China Sea in spring and autumn in 2004
15:00 END OF SESSION

OS7 High latitude changes in ocean, ice and climate (co-listed in CL & CR) – Posters
Convener: Döscher, R.
Co-Conveners: Mauritzen, C., Schauer, U.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0491; EGU2008-A-00664; OS7-1FR1P-0491
Pnyushkov, A.; Korablev, A.
Seasonal and interannual changes in the Arctic Ocean
XY0492; EGU2008-A-01843; OS7-1FR1P-0492
Wu, J.
Sources and transport of iron in the coastal waters of the North Gulf of Alaska
XY0493; EGU2008-A-08155; OS7-1FR1P-0493
Jutterström, S.; Hjalmarsson, S.; Anderson, L. G.; Olsson, A.
A comparison of anthropogenic carbon during the LOMROG 07 and IAOE 91 cruises in the Arctic Ocean
XY0494; EGU2008-A-10604; OS7-1FR1P-0494
Rodrigues, J.
The increase of the length of the ice-free season in the Arctic
XY0495; EGU2008-A-11525; OS7-1FR1P-0495
McLaughlin, F.; Yamamoto-Kawai, M.; Carmack, E.; Shimada, K.; Proshutinsky, A.
The Hydrography of the Canada Basin: 2002-2007
XY0496; EGU2008-A-09831; OS7-1FR1P-0496
Germe, A.; Houssais, M.-N.; Herbaut, C.
Forcing impacts on the convection variability in the Greenland Sea
XY0497; EGU2008-A-07285; OS7-1FR2P-0497
Borenäs, K.; Björk, G.
A column model for the Arctic Ocean ice cover

XY0498; EGU2008-A-08237; OS7-1FR2P-0498
Marnela, M.; Rudels, B.; Beszczynska-Möller, A.; Eriksen, P.
Evaluation of properties and transports of water north of the Fram Strait derived from CTD data

XY0499; EGU2008-A-10015; OS7-1FR2P-0499
Abrahamsen, E. P.; Meredith, M. P.; Leng, M. J.; Falkner, K. K.; Alkire, M. P.
Freshwater composition of the Laptev Sea continental shelf

XY0500; EGU2008-A-02742; OS7-1FR2P-0500
Korabiev, A.; Johannessen, O.M.; Pnyushkov, A.; Smirnov, A.; Khayretdinova, L.
Detection of the climatic signals propagated across Nolso-Flugga line by means of objective and cluster analysis

XY0501; EGU2008-A-01442; OS7-1FR2P-0501
Joyce, T.; Proshutinsky, A.
Greenland's Island Rule and the Arctic Ocean Circulation (cancelled)

XY0502; EGU2008-A-11611; OS7-1FR2P-0502
Hobbs, W.
Southern Hemisphere zonal waves and Antarctic Peninsula temperature trends

XY0503; EGU2008-A-03302; OS7-1FR2P-0503
Rabe, B.; Schauer, U.; Pisarev, S
Simultaneous observations of velocity, temperature and salinity in the central Arctic

XY0504; EGU2008-A-08602; OS7-1FR2P-0504
Jessen, S.P.; Rasmussen, T.L.
Millenial scale climate change during Marine Isotope Stage (MIS) 3 and 2 - Preliminary results from the West Svalbard Slope

XY0505; EGU2008-A-03640; OS7-1FR2P-0505
Alekseev, G.; Pnyushkov, A.; Golovin, P.; Ivanov, N.
Recent climatic changes in the marine Arctic

XY0506; EGU2008-A-02099; OS7-1FR2P-0506
Popov, A.; Rubenchik, A.
Flaw polynyas as a source of long-distance connections in climate system

XY0507; EGU2008-A-02213; OS7-1FR2P-0507
Mathiot, P.; Jourdain, N.; Barnier, B.; Gallée, H.
Sensitivity of a model of the Ross Ice Shelf Polynya to different atmospheric forcing sets

XY0508; EGU2008-A-03863; OS7-1FR2P-0508
Kuhlbrodt, T.
How do coupled GCMs perform in representing wind-driven upwelling in the Southern Ocean?

XY0509; EGU2008-A-11599; OS7-1FR2P-0509
Raphael, M.
Wainer, I.; Deser, C.
The influence of Antarctic sea ice extremes on large scale atmospheric variability in the Southern Hemisphere (cancelled)

XY0510; EGU2008-A-01419; OS7-1FR2P-0510
Goosse, H.; Lefebvre, W.; de Montety, A.; Orsi, A.
Variability of the Southern Ocean ice extent and water masses characteristics during the last 100 years in a climate model using data assimilation

XY0511; EGU2008-A-11475; OS7-1FR2P-0511
Cuna, S.; Negointa, T. Gh; Berdea, P.; Balas, G.
Stable isotope study in East Antarctica

OS8 The fate of the Arctic sea ice in changing climate: implication from observations and modeling (co-listed in CL, CR & NH)

Convener: Alekseev, G.
Co-Convener(s): Johannessen, O., Bobylev, L.
Lecture Room 4Chairperson: N.N.
15:30–15:45; EGU2008-A-04543; OS8-1FRA0-001
Kattsov, V.
Arctic sea ice in CMIP3 projections (solicited)

15:45–16:00; EGU2008-A-11542; OS8-1FRA0-002
Hibler, W. D.; Hutchings, J.; Vavrus, S.
A two hundred year simulation of sea-ice from Pre-Industrial to Present

16:00–16:15; EGU2008-A-05547; OS8-1FRA0-003
Yakovlev, N.
Arctic sea ice in 1948-2002 as derived by the coupled ice-ocean model FEMAO

16:15–16:30; EGU2008-A-02862; OS8-1FRA0-004
Comparison of Arctic sea ice variability in IPCC climate experiments and in ocean-sea ice models (solicited)

16:30–16:45; EGU2008-A-03437; OS8-1FRA0-005
Bobylev, L.; Kuzmina, S.; Shalina, E.; Johannessen, O.M.; Pettersson, L.
Decreasing arctic sea ice mirrors increasing greenhouse gases

17:00 END OF SESSION

OS8 The fate of the Arctic sea ice in changing climate: implication from observations and modeling (co-listed in CL, CR & NH) – Posters

Convener: Alekseev, G.
Co-Convener(s): Johannessen, O., Bobylev, L.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0512; EGU2008-A-01421; OS8-1FR2P-0512
Goosse, H.; Driesschaert, E.; Fichefet, T.; Lourette, M.F.
Information on the early Holocene climate constrains the summer sea ice projections for the 21st century

XY0513; EGU2008-A-08198; OS8-1FR2P-0513
Dubois, C.; Salas Melia, D.
 Abrupt depletion of sea-ice in the Arctic over the 21st century

XY0514; EGU2008-A-02338; OS8-1FR2P-0514
Wu, B.; Johnson, Mark
Distinct modes of winter arctic sea ice motion
OS10 Variability in the Southern Ocean – Posters

Conveners: Hellmer, H.
Co-Convener(s): PARK, Y.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00
Poster Area Halls X/Y
Chairperson: VIVIER, F.

XY0520; EGU2008-A-05752; OS10-1FR1P-0520
Hogg, A.; Meredith, M.; Blundell, J.; Wilson, C.
Eddy heat flux in the Southern Ocean: Response to variable wind forcing

XY0521; EGU2008-A-00840; OS10-1FR1P-0521
Jardon, F.; Piola, A.
Evidence for a cross shelf flux in the Southwestern Atlantic Ocean

XY0522; EGU2008-A-01554; OS10-1FR1P-0522
Weijer, W.; Gille, S. T.
Normal Modes of the Australia-Antarctic Basin

XY0523; EGU2008-A-05273; OS10-1FR1P-0523
Berezutskii, A.V.; Skylarv, V.E.
Volume sound scattering in the Pacific Sector of the Antarctic

XY0524; EGU2008-A-01009; OS10-1FR1P-0524
Gomis, D.; THE ESASSI TEAM
The ESASSI-08 cruise in the South Scotia Ridge region: preliminary analysis of hydrodynamic and biogeochemical data

XY0525; EGU2008-A-00184; OS10-1FR1P-0525
Wilchinsky, A.; Feltham, D.
Generation of a dense coastal current by an Antarctic polynya

XY0526; EGU2008-A-08563; OS10-1FR1P-0526
Shoosmith, D. R.; Jenkins, A.; Jacobs, S. S.
Variability of ocean heat transport and implications for melting beneath Dotson Ice Shelf, West Antarctica

XY0527; EGU2008-A-09763; OS10-1FR1P-0527
Abrahamsen, E. P.; Nicholls, K. W.; Østerhus, S.
Circulation beneath Fimbul Ice Shelf investigated using an AUV and numerical model

OS14 Temporal variability of ocean temperature (heat content) and salinity (freshwater content)

Convener: Levitus, S.
Co-Convener(s): Artale, V., Rixen, M.
Lecture Room 4
Chairperson: N.N.

8:30–8:45; EGU2008-A-11464; OS14-1FR1O-001
Willis, J
A new estimate of interannual variability in upper ocean heat content in light of recently discovered in situ data biases (solicited)

8:45–9:00; EGU2008-A-01960; OS14-1FR1O-002
Domingues, C.; Church, J.; White, N.; Glecker, P.; Wijffels, S.; Barker, P.; Dunn, J.
Improved ocean-warming estimates: implications for climate models and sea-level rise (solicited)

9:00–9:15; EGU2008-A-02297; OS14-1FR1O-003

9:15–9:30; EGU2008-A-11775; OS14-1FR1O-004
Carton, J.; Santerelli, A.; Chepurin, G
Global ocean heat content in nine ocean reanalyses

9:30–9:45; EGU2008-A-03764; OS14-1FR1O-005
Dhomps, A.-L.; Guinehut, S.; Larnicol, G.; Le Traon, P.-Y.
Global Comparison of Argo dynamic height with Altimeter sea level anomalies

9:45–10:00; EGU2008-A-03303; OS14-1FR1O-006
Katsman, C. A.
On the Thermometric “Sea Level Sensitivity” of Climate Models: Does it Match the Observations?

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-02549; OS14-1FR2O-001
Wells, N.; Ivchenko, V.; Aleynik, D
Heat and salinity content in the North Atlantic from 1999-2007

10:45–11:00; EGU2008-A-09527; OS14-1FR2O-002
Scheinert, M.; Böning, C.; Biastoch, A.
Mechanisms of changes in the subpolar freshwater budget: model results

11:00–11:15; EGU2008-A-07430; OS14-1FR2O-003
North Sea climate from 1948 - 2006
IS45 - OS16/SM22 Seismic Oceanography: Contributions of Seismic Imaging to Physical Oceanography (co-organized by OS & SM; co-listed in GMPV)

Convener: Holbrook, W.
Co-Conveners: Gostiaux, L.
Lecture Room D
Chairperson: Holbrook, W.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: Holbrook, W.

XY0530; EGU2008-A-04739; IS45 - OS16/SM22-1FR2P-0530
Mirshak, R.; Nedimovic, M.R.; Greenan, B.W.; Louden, K.E.; Ruddick, B.R.; Shimeld, J.W.
Comparison field and synthetic seismic reflection images of Gulf Stream and Slope waters southeast of Nova Scotia

XY0531; EGU2008-A-01032; IS45 - OS16/SM22-1FR2P-0531
Uenzelmann-Neben, G.; Klaeschen, D.; Krahmann, G.; Reston, T.; Visbek, M.
Seismic reflections within the water column south of South Africa: indications for the Agulhas Retrospection

XY0532; EGU2008-A-06003; IS45 - OS16/SM22-1FR2P-0532
Finestructures in the Kuroshio Current using seismic reflection data

XY0533; EGU2008-A-09796; IS45 - OS16/SM22-1FR2P-0533
Jones, S.M.; Hardy, R.; Hardy, D.
Automated processing strategies for rapid generation of calibrated images of water-layer reflectivity.

XY0534; EGU2008-A-06832; IS45 - OS16/SM22-1FR2P-0534
Papenberg, C; The GO Project Partners
The GO Project Cruise Seismic Data

XY0535; EGU2008-A-01214; IS45 - OS16/SM22-1FR2P-0535
Vsemirnova, E.; Hobbs, R.
Seismic imaging of water mixing around a large eddy current in the Gulf of Cadiz

XY0536; EGU2008-A-08088; IS45 - OS16/SM22-1FR2P-0536
Quentel, E.; Gutscher, M.A.; Carton, X.; Hobbs, R.; Vsemirnova, E.; Klingelhofer, F.
Mesoscale structures in Mediterranean Outflow Water in the Gulf of Cadiz: analysis of legacy oceanographic and marine seismic data

XY0537; EGU2008-A-09153; IS45 - OS16/SM22-1FR2P-0537
Correlating structures in seismic reflection data and mesoscale to fine-scale oceanographic structures related to the Mediterranean Outflow Water: a preliminary analysis of joint data acquired during the GO cruise

XY0538; EGU2008-A-02240; IS45 - OS16/SM22-1FR2P-0538
Biescas, B.; Sallarès, V.; Pelegri, J.L.; Machín, F.; Carbonell, R.; Buffett, G.; Dafniobitita, J.J.
Seismic imaging of meddy finestructure

XY0539; EGU2008-A-07397; IS45 - OS16/SM22-1FR2P-0539
Buffett, G.; Biescas, B.; Sallarès, V.; Carbonell, R.; Peligrí, J.
Evidence of mixing and entrainment in the mediterranean undercurrent from seismic reflection profiling
XY0540; EGU2008-A-01634; IS45 - OS16/SM22-1FR2P-0540

Serra, N.; Sallarés, V.; Biscas, B.; Ambar, I.; Buffet, G.; Carbonell, R.
Comparisons between oceanographic models and seismic observations of the Mediterranean Water Undercurrent and Meddies

XY0541; EGU2008-A-05539; IS45 - OS16/SM22-1FR2P-0541
Klaaschen, D.; Papenberg, C.; Krahnmann, G.; Hobbs, R.
Vertical seismic profiling (VSP) in seismic oceanography - a proof of concept

XY0542; EGU2008-A-06605; IS45 - OS16/SM22-1FR2P-0542
Kormann, J.; Cobo, P.; Biscas, B.; Sallares, V.; Carbonell, R.; Gracia, E.
A new 2D, finite differences wave propagation algorithm for seismic oceanography: comparison between modelled and measured shot gathers

XY0543; EGU2008-A-02655; IS45 - OS16/SM22-1FR2P-0543
Sallares, V.; Biscas, B.; Buffet, G.; Carbonell, R.; Daloibeitia, I.; Hobbs, R.
Potential and limits of multichannel seismics to image the oceans’ finestructure

XY0544; EGU2008-A-11998; IS45 - OS16/SM22-1FR2P-0544
Gostiaux, L.; van Haren, H.; de Haas, H.
Seismic oceanography using small-size seismic equipment.

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IS47 - OS20/BG1.6/CL46/GMPV38/TS22 EuroFORUM 2008 - European Collaboration for Implementation of Marine Research on Cores (EuroMARC) (co-organized by OS, BG, CL, GMPV & TS)

Convener: Camoin, G.
Co-Conveners: HAUGLUSTAINE, D.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y

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XX0545; EGU2008-A-06343; IS47 - OS20/BG1.6/CL46/GMPV38/TS22-1FR2P-0545
DE LANGE, G.J.; Robert, B.; VERSTEEGH, G.; ZONNEVELD, K.A.F.; BERNASCONI, S.
Multidisciplinary study Of Continental/ocean Climate dynamics using High-resolution records from the eastern Mediterranean (MOCCHA)

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Convener: Camoin, G.
Co-Conveners: HAUGLUSTAINE, D.
Display Time: Friday, 08:00–19:30

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XY0546; EGU2008-A-06740; IS47 - OS20/BG1.6/CL46/GMPV38/TS22-1FR2P-0546
Robert, B.; Jibert, T.; Reichart, G.J.; De Lange, G.J.
Preliminary geochemical assessment of the suitability of near-coastal Mediterranean sediments for detailed climate reconstruction (MOCCHA project)

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XY0547; EGU2008-A-08036; IS47 - OS20/BG1.6/CL46/GMPV38/TS22-1FR2P-0547
Bernasconi, S.M.; Taricco, C.; Gilib, M.; Vivaldo, G.
Mediterranean climate variability based on high-resolution records from the eastern Mediterranean sediments: EuroMARC project MOCCHA

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XY0548; EGU2008-A-07605; IS47 - OS20/BG1.6/CL46/GMPV38/TS22-1FR2P-0548
The CARBONA TE project: Mid-latitude carbonate systems – complete sequences from cold-water coral carbonate mounds in the Northeast Atlantic

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XY0549; EGU2008-A-06379; IS47 - OS20/BG1.6/CL46/GMPV38/TS22-1FR2P-0549
The R.V. Pelagia pre-drilling site survey at the Rockall and Porcupine cold water coral mounds provinces, European Atlantic margin. The CARBONA TE project, ESF EuroMARC program.
Drilling a NE Atlantic continental margin cold-water coral carbonate mound: evaluating the hydrodynamic and environmental conditions during Challenger Mound development (IODP Exp.307).

Lowstand sea levels from U-Th dating of pre-LGM corals: results from IODP expedition 310 “Tahiti sea level”

Modelling internal Reef Chronology and virtual drill Logs using a spreadsheet-based Reef Growth Model (SEALEX)

The impact of freshwater geochemistry on reef growth and reef alteration

In-situ processing of deep biosphere cores