

# Poster program

## ■ Tuesday, 9 January 2007 15h30-16h30

### ● *Session A : Water budget of the Mediterranean sea*

- A.1 Approche régionale pour la détection d'instantanarités dans des séries pluviométriques de l'arc méditerranéen français.  
*Pujol Nicolas, Sabatier Robert, Neppel Luc*
- A.2 Validation of the SAFRAN meteorological analysis over the French Mediterranean region  
*Quintana Seguí Pere, Martin Eric, Habets Florence*
- A.3 Evaluation de la paramétrisations des nuages dans LMDZ par desagregation spatio-temporelle  
*Chéruy Frédérique, Liberti G.L., Aires F., Dufresne J.L., Hourdin F.*
- A.4 Characterizing regional temperature regimes of NW Mediterranean coastal waters: a step forward to better understand the responses of benthic communities to current climate change  
*Bensoussan Nathaniel, Romano Jean-Claude, Harmelin Jean-Georges, Garrabou Joaquim*
- A.5 Comportement biogéochimique des contaminants chimiques en mer Méditerranée ouverte  
*Cossa Daniel, Saliot A., Cadiou Jean-François, Morin P.*

### ● *Session B : Heavy precipitation, Flash-flooding and flooding*

- B.1 Reconstitution des évènements climatiques extrêmes (crues et tempêtes) dans le Golfe d'Aigues-Mortes à partir de l'étude des archives sédimentaires  
*Dezileau Laurent, Sabatier Pierre, Condomines Michel, Briquieu Louis*
- B.2 Mediterranean synoptic scale ingredients involved in Heavy Precipitating Events triggering over Southern France: a clustering approach.  
*Joly Bruno, Nuissier Olivier, Ducrocq Véronique, Joly Alain*
- B.3 Potential of MIMOSA to detect deep stratospheric intrusions associated with severe weather over the Mediterranean Basin  
*Claud Chantal, Funatsu Beatriz, Hauchecorne Alain*
- B.4 A combined used of Meteosat water vapor imagery and potential vorticity inversion to improve the numerical prediction of the Algiers 2001 superstorm  
*Argence Sébastien, Lambert Dominique, Richard Evelyne, Söhne Nathalie, Chaboureau Jean-Pierre, Arbogast Philippe*
- B.5 Heavy precipitating events over southern France: mesoscale environment  
*Ricard Didier, Ducrocq Véronique, Lauvaux Thomas, Masson Frédéric*
- B.6 Observation of Mediterranean precipitating systems using AMSU  
*Funatsu Beatriz, Claud Chantal, Chaboureau Jean-Pierre*
- B.7 Use of TRMM and lightning network observations for the study of storms over the Mediterranean  
*Lagouvardos Konstantinos, Kotroni Vassiliki, Katsanos Dimitris*
- B.8 The Bollène-2002 experiment: evaluation of processing strategies for radar QPE in the Cévennes-Vivarais region  
*Boudevillain Brice, Delrieu Guy, Chapon Benoit, Kirstetter Pierre-Emmanuel, Nicol John, Faure Dominique, Andrieu Hervé*
- B.9 Spatial and temporal structure of intense Mediterranean precipitation  
*Berne Alexis, Boudevillain Brice, Chapon Benoit, Kirstetter Pierre-Emmanuel, Delrieu Guy*
- B.10 The Alès DSD measurement experiment  
*Chapon Benoit, Ayral Pierre-Alain, Boudevillain Brice, Delrieu Guy, Armetta Anthony, Berne Alexis*
- B.11 Towards a physically-based VPR identification method  
*Kirstetter Pierre-Emmanuel, Boudevillain Brice, Andrieu Hervé, Delrieu Guy*
- B.12 Tomography sensitivity tests and comparisons of water vapor fields with radar data.  
*Reverdy Mathieu, Van Baelen Joël, Walpersdorf Andréa, Boudevillain Brice*

- **B.13 Applications des mesures GPS (2D & 3D) de la vapeur d'eau à l'étude des précipitations intenses du sud-est de la France.**  
*Champollion Cédric, Masson Frédéric, Brenot Hugues, Ducrocq Véronique, Walpersdorf Andréa*
- **B.14 Triggering and stationarity factors for Heavy Precipitating Events over Southern France**  
*Nuissier Olivier, Ducrocq Véronique, Ricard Didier*
- **B.15 Interpreting airplane measurements with the help of a 3D model with detailed (bin) microphysics**  
*Leroy Delphine, Wobrock W., Flossmann A. I.*
- **B.16 Orographic rainfall over the Cévennes-Vivarais region**  
*Anquetin Sandrine, Boudevillain Brice, Godart A., Molinié Gilles, Yates Eddy, Leblois Etienne*
- **B.17 A methodology for hydrological post-flash flood field investigations**  
*Gaume Eric, Delrieu Guy, Bouvier Christophe, Borga Marco*
- **B.18 Collection and valuation of information on past historical flash floods**  
*Payrastra Olivier, Gaume Eric, Andrieu Hervé*
- **B.19 MARINE : Prévion des crues éclair sur le Gardon d'Anduze**  
*Maubourguet Marie Madeleine, Chorda J., Dartus D., George J.*
- **B.20 Hydro-meteorological modeling study of a flash-flood event over Catalonia: Sensitivities of the Llobregat river response to the rainfall uncertainty**  
*Romero Romualdo, Amengual Arnau*
- **B.21 Experimental study of surface runoff under simulated rainfall in Cévennes-Vivarais: towards a contributing length.**  
*Nicolas Matthieu, Vandervaere Jean-Pierre, Voisin Gaëlle, Lapetite Jean-Marc, Esteves Michel, Miscioscia Jean-Marie*
- **B.22 Role of Mediterranean karst aquifers in flood genesis, Does an active management of karst system could contribute to reduce the risk of flooding or can we predict by simulations its behaviour?**  
*Dörfliger Nathalie, Ladouche Bernard, Jourde Hervé, Roesch Axel, Belaud Gilles, Cernesson Flavie*
- **B.23 Karst/river interactions during Mediterranean flash-floods: Case of the Coulazou river with the karst system of the Thau lagoon (South France)**  
*Bailly-Comte Vincent, Jourde Hervé, Roesch Axel, Pistre Séverin*
- **B.24 Macroscopic modelling of floods over urban areas**  
*Lhomme Julien, Soares-Frazão Sandra, Zech Yves, Guinot Vincent*
- **B.25 A 3-D coupled surface-subsurface model to investigate the runoff dynamics on hillslopes**  
*Esclaffier Thomas, Gaume Eric, Dangla Patrick, Ern Alexandre, Kao Cyril*
- **B.26 Marine aerosols, heavy precipitation and flash-flooding**  
*Despiau Serge, Piazzola Jacques, Giordani Hervé, Caniaux Guy*
- **B.27 Air-sea interactions and coupling in Mediterranean torrential rain events**  
*Lebeaupin Brossier Cindy, Ducrocq Véronique, Giordani Hervé*
- **B.28 Understanding Convection and Lightning Activity from Ground-based and Multi-satellite Observations for Hydrology Applications**  
*Defer Eric, Molinié Gilles, Betz Hans Dieter*
- **B.29 Les marnes, roches imperméables ? Processus générateurs des crues dans les marnes noires de l'Oxfordien**  
*Cosandey Claude, Mathys Nicolle, Maquaire Olivier, Esteves Michel*

## ■ Wednesday, 10 January 2007 10h10-11h20

### ● *Session C : Water resources- hydrological cycle- continental surfaces*

- **C.1 Groundwater resources in Mediterranean karst aquifers; From karstification setting to current functioning illustrated with examples**  
*Dörfliger Nathalie, Ladouche Bernard, Partenaires Du Projet Européen Meditate*
- **C.2 Impact of karstic aquifer on water balance in Mediterranean region**  
*Plagnes Valérie, Habets Florence, Fleury Perrine, Quintana Seguí Pere, Oudin Ludovic, Martin Eric, Ducharne Agnès*
- **C.3 Indicators for flash flood prevention at the catchment scale using remote sensing data and simple field surveys**  
*Desprats J-Francois*
- **C.4 MountSnowMed: A project proposal on the impact of climate change on snow dynamics and snow derived water resources in Mediterranean Mountain Regions**  
*De Jong Carmen, Litauer Iggy, Chehbouni Abdelghani, Escadafal Richard, Sanchez Francisco, Oezel Mehmet, Yildirim Hulya, Paracchini Luisa, Blumberg Dan, Williams Mark*
- **C.5 Improvement of the performance of the SAFRAN-ISBA-MODCOU model for hydrological applications on the Mediterranean region of France.**  
*Quintana Seguí Pere, Martin Eric, Habets Florence*
- **C.6 Impacts des pratiques culturales sur les variations spatiales du microclimat et des flux en Crau-Camargue. Apport des données de télédétection pour le suivi de la gestion en eau des cultures.**  
*Courault Dominique, Olios Albert, Jacob Frédéric, Marloie Olivier, Hanocq Jean-François, Bertrand Nadine, Desfonds Véronique, Ruget Françoise, Fillol Erwan, Lecharpentier Patrice, Clastre Philippe*
- **C.7 Linking Hydrology and Atmospheric Sciences in Continental Water Dynamics Modeling**  
*David Cedric, Gochis David, Maidment David, Wilhelmi Olga*
- **C.8 Large Scale Circulation (LSC) changes around Mediterranean and Europe: a worsening factor affecting hot season shortages of water supply through a regional intensification of global warming.**  
*Plaut Guy*

### ● *Session D : Dense water formation*

- **D.1 Modeling the deep convection in the Northwestern Mediterranean Sea using an eddy-permitting and an eddy-resolving model: case study of winter 1986-87**  
*Herrmann Marine, Somot Samuel, Sevault Florence, Estournel Claude*
- **D.2 Etudes de Processus Non-Hydrostatiques**  
*Wirth Achim*
- **D.3 Statistical downscaling of wind probability distributions over the western Mediterranean basin**  
*Salameh Tamara, Drobinski Philippe*
- **D.4 Aerosol distribution over the western Mediterranean basin during a Tramontane/Mistral event**  
*Salameh Tamara, Drobinski Philippe, Menut Laurent, Bessagnet Bertrand, Flamant Cyrille, Hodzic Alma, Vautard Robert*
- **D.5 A wavelet method to handle synoptic-scale coherent structures**  
*Plu Matthieu, Arbogast Philippe, Joly Alain*

### ● *Session E : Coastal dynamics*

- **E.1 RiOMar.fr : Fate of organic carbon and nutrient at the interface between the Rhone river and the Mediterranean Sea**  
*Rabouille Christophe, Lansard Bruno, Estournel Claude, Naudin Jean-Jacques, Radakovitch Olivier*
- **E.2 Sediment Transport in the Gulf of Lion (NW Mediterranean): Impact of Extreme Meteorological Events (storm, flood)**  
*Ulses Caroline, Estournel Claude, Durrieu De Madron Xavier, Palanques Albert*
- **E.3 Short-term variation of the phytoplankton assemblage in the Bay of Marseille (France) monitored by in situ flow cytometry**  
*Thyssen Melilotus, Mathieu Delphine, Denis Michel*
- **E.4 Biogeochemical processes in Rhone diluted mesoscale structures**  
*Naudin Jean-Jacques*

- **E.5 Significance of NW Mediterranean flash flood events on the functioning of the nearshore marine ecosystem**  
*Guizien Katell, Charles François, Lantoine François, Naudin Jean-Jacques*
- **E.6 The influence of submarine groundwater discharge on coastal zones : the case of two Mediterranean lagoons.**  
*Gattaceca Julie, Mayer Adriano, Radakovitch Olivier, Vallet-Coulomb Christine, Claude Christelle, Hamelin Bruno*
- **E.7 Three-dimensionnal coupled modeling of wave- and wind/buoyancy- driven currents: An application in the Gulf of Lion (NW Mediterranean sea, France)**  
*Denamiel Cléa, Leredde Yann, Bouchette Frédéric, Marsaleix Patrick*
- **E.8 MEDICIS - projet intégré sur la contamination chimique en Méditerranée**  
*Cadiou Jean-François, Romana Louis-Alexandre*
- **E.9 Short-term variability of ultraplankton in the northwestern Mediterranean in late summer 2004. Evidence for pulsed mineralisation in the water column**  
*Denis Michel, Thyssen Melilotus, Grégori Gérald, Tavernier Cindy*
- **E.10 Reconstitution of paleostorms events about 300 years ago, recorded in a coastal lagoon (Hérault, South of France)**  
*Sabatier Pierre, Dezileau L.; Condomines M.; Briqueu L.; Colin C.; Bouchette F.; Le Duff M.; Blanchemanche P.*

● ***Session F : Societal and economic aspects***

- **F.1 Méthode d'identification du risque de coupure du réseau routier**  
*Versini Pierre-Antoine, Andrieu Hervé, Gaume Eric*
- **F.2 Designing effective water management strategies of coastal aquifers at risk of salt water intrusion**  
*Aunay Bertrand, Dörfliger Nathalie, Duvail Cédric, Grelot Frédéric, Le Strat Paul, Rinaudo Jean-Daniel*
- **F.3 Extreme groundwater surges in fractured and karstified carbonate aquifers**  
*Najib Kenza, Jourde Hervé, Pistre Séverin*

## ■ Thursday, 11 January 2007

10h15-11h15

### ● *Session H : Observing and Modelling strategies*

- **H.1 OMERE a long term environmental research observatory about anthropogenic and climate change impacts on water and matter flow in Mediterranean rural hydrological systems**  
*Voltz Marc, Albergel Jean*
- **H.2 The Cévennes-Vivarais Mediterranean Hydro-Meteorological Observatory**  
*Delrieu Guy*
- **H.3 Delta de Camargue et cycle de l'eau : principaux résultats de l'ORE Resyst.**  
*Radakovitch Olivier, Bourrié Guillem, Chauvelon Philippe, De Montety Véronique, Hermitte Daniel, Olioso Albert, Pichaud Marc, Sandoz Alain, Travi Yves, Trolard Fabienne, Vallet-Coulomb Christine, Courault Dominique, Marloie Olivier*
- **H.4 Entre Terre et Mer : la Zone Atelier Orme. Pour une approche intégrée de la zone côtière du golfe du Lion**  
*Ludwig Wolfgang, Monaco André, Provansal Mireille, Picon Bernard*
- **H.5 SMOSMANIA**  
*Calvet Jean-Christophe, Fritz Noureddine, Froissard Francis, Suquia David, Petitpa Alain, Piguet Bruno, Grégoire Pierre*
- **H.6 Proposal of deployment of a UHF-radar wind-profiler network along the french Mediterranean coast for the HYMEX experimental phase**  
*Caccia Jean-Luc*
- **H.7 The Use of Remotely Sensed data for Integrated Hydrological Modelling in Arid and Semi-Arid Regions: the SUDMED Program**  
*Chehbouni Abdelghani, Escadafal Richard, Boulet G., Duchemin B., Simonneaux V., Dedieu G., Mougenot B., Khabba S., Kharrou H., Merlin O., Chaponnière A., Ezzahar J., Erraki S., Hoedjes J., Hadria R., Abourida A., Cheggour A., Raibi F., Hanich L., Guemouria N., Olioso Albert, Jarlan L., Jacob Frédéric, Sobrino J.*
- **H.8 Radium isotopes in seawater, suspended and sinking particles collected at DYFAMED station (Western Mediterranean Sea)**  
*Van Beek Pieter, Reyss Jean-Louis, Sternberg Erika, Souhaut Marc, Jeandel Catherine*
- **H.9 The DUNE project: a DUst experiment in a low Nutrient, low chlorophyll Ecosystem.**  
*Guieu Cécile, Blain Stéphane, Dulac François, Obenosterer Ingrid, Bergametti Gilles, Desboeufs Karine, Loÿe-Pilot Marie-Dominique, Pulido-Villena Elvira, Ridame Céline*
- **H.10 LATEX (Lagrangian Transport EXperiment) dans le golfe du Lion**  
*Petrenko Anne, Diaz Frédéric, Doglioli André, Blain Stéphane*
- **H.11 Coastal to nearshore hydrodynamics along the Northwestern Méditerranéan coast. The european project NAUSICAA and the GLADYS fellowship**  
*Bouchette Frédéric, Leredde Yann, Lauer Christine, Berthebaud Eric, Denamiel Cléa, Brambilla Elena, Bujan Nans*
- **H.12 In-situ measurement of Mediterranean nearshore hydrodynamics at high temporal and spatial resolution. FEST and CALAMAR experiments**  
*Certain Raphael, Bouchette Frédéric, Courp Thierry, Leredde Yann, Ferrer Pierre, Brambilla Elena, Bujan Nans, Raynal Olivier, Berthebaud Eric, Lauer Christine, Denamiel Cléa, Seranne Michel, Sabatier François, Meulé Samuel, Rey Vincent*
- **H.13 CORSICA 2007: a project of field campaign on ozone photochemistry and aerosols in western Mediterranean**  
*Gheusi François, Ravetta François*
- **H.14 Impacts of intense aerosol episodes in the western Mediterranean region**  
*Collectif Aérosols, Alfaro S., Balkanski Y., Bergametti Gilles, Chiapello I., Deboudt K., Desboeufs Karine, Despiau Serge, Dulac François, Flamant Cyrille, Flament P., Gheusi François, Goloub P., Gomes L., Guieu Cécile, Jaffrezo J.-L., Legrand M., Léon J.-F., Losno R., Loÿe-Pilot Marie-Dominique, Mallet M., Marchand N., Marticorena M., Menut Laurent, Mignon C., Moulin C., Pelon J., Pham M., Ravetta François, Tanré D., Thiria S., Wortham H.*
- **H.15 The European project HYDRATE on flash floods (2006-2008)**  
*Gaume Eric, Borga Marco, Delrieu Guy*
- **H.16 The CYPRIM project**  
*Ducrocq Véronique, Joly Alain, Arbogast Philippe, Claud Chantal, Delrieu Guy, Habets Florence, Giordani Hervé, Martin Eric, Masson Frédéric, Richard Evelyne, Somot Samuel, Talagrand Olivier, Terray Laurent, Walpersdorf Andréa*

- **H.17 MHYDAS : Modélisation Hydrologique Spatialisée des AgroSystèmes - Spatially Distributed Hydrological Modelling of AgroSystem**  
*Moussa Roger, Voltz Marc, Lagacherie P., Louchart X., Colin F., Fabre J.C., Raclot D.*
- **H.18 Flash flood forecasting within the PREVIEW project.**  
*Vincendon Béatrice, Chancibault Katia, Ducrocq Véronique, Saulnier Georges-Marie, Lelay Matthieu, Quesney Arnaud, Donnadille Jérôme, Rabuffetti Davide, Milelli Massimo, Kotroni Vassiliki, Lagouvardos Konstantinos, Dierer Silke, Steiner Philippe*
- **H.19 Comparison of two methods to forecast a low predictable heavy rainfall case**  
*Argence Sébastien, Lambert Dominique, Richard Evelyne, Söhne Nathalie, Chaboureau Jean-Pierre, Arbogast Philippe*
- **H.20 Mesoscale data assimilation for high-resolution forecasting of heavy rain events**  
*Jaubert Geneviève, Caumont Olivier, Ducrocq Véronique, Yan Xin*
- **H.21 Use of satellite data for the improvement of high resolution precipitation forecasts in the Mediterranean**  
*Kotroni Vassiliki, Lagouvardos Konstantinos*
- **H.22 A high resolution eddy resolving model of the North-Western Mediterranean Sea**  
*Garreau Pierre*
- **H.23 Comparison Ocean Dynamics with a Regional Circulation Model and Improved Altimetry in the Northwestern Mediterranean**  
*Bouffard Jérôme, Vignudelli Stefano, Herrmann Marine, Lyard Florent, Marsaleix Patrick, Ménard Yves, Cipollini Paolo*
- **H.24 Near real time mapping of soil moisture using SAR images**  
*Baghdadi Nicolas, Cerdan Olivier*
- **H.25 Contribution of low frequency radar imagery to hydrogeological exploration in arid countries.**  
*Grandjean Gilles, Baghdadi Nicolas, Paillou Philippe*
- **H.26 Characterization of karstic aquifer and localization of conduits using geophysics.**  
*Girard Jean-François, Baltassat Jean-Michel, Boucher Marie*
- **H.27 GPS network in South of France for better understanding and prediction of heavy rains**  
*Boniface Karen, Doerflinger Erik, Masson Frédéric, Collard Philippe*
- **H.28 Evolution du réseau et des produits radar de Météo-France**  
*Tabary Pierre et al.*