

Topics covered by the research teams

(April 2009)

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This *Dossier* is structured in four chapters. The first three deal with methodological research issues associated with the development of methods. The fourth chapter is thematic and is divided into four subchapters that illustrate the use of remote sensing and spatial information in various specific research fields.

The different research units and teams mentioned throughout the text are listed on the following chart.

The main topics focused on by the research teams are represented by a triangle (▲) and secondary topics are shown with a circle (●). Red triangles (▲) indicate the chapter in which the team's features are presented.

1. Satellite and airborne remote sensing
2. Spatial analysis and spatiotemporal modelling methods
3. Information systems and observatories
4. Spatial information applications in different fields:
 - 4.1. Agriculture, fisheries and forestry
 - 4.2. Environment
 - 4.3. Land-use planning, risks
 - 4.4. Populations and societies

| Unit | 1 | 2 | 3 | 4.1 | 4.2 | 4.3 | 4.4 |
|---|---|---|---|-----|-----|-----|-----|
| ¹ BRGM Service Géologique Régional, Operational services « Eau » et « Aménagement et risques naturels » Marc Audibert | | ● | ▲ | | ▲ | ▲ | |
| UPR AGIRs - Animal and Integrated Risk Management (CIRAD) François Monicat | | | | | ▲ | | ▲ |
| UPR AIVA - Agro-ecological Adaptation and Varietal Innovation (CIRAD) Michael Dingkuhn | | | | ▲ | | | |
| ^{2,3} UMR AMAP - Botany and Computational Plant Architecture (CIRAD, INRA, CNRS, IRD, UM2) Daniel Barthémély | ● | ▲ | | ● | ● | | |
| ² UMR CBGP - Center for Biology and Management of Populations (INRA, Montpellier SupAgro, CIRAD, IRD) Denis Bourguet | | | | | ▲ | | ● |
| ^{2,3} UMR CEFE - Centre of Evolutionary and Functional Ecology (CNRS, UM1, UM2, UM3, CIRAD, Montpellier SupAgro, EPHE) Jean-Dominique Lebreton | | ● | | ▲ | ▲ | | ▲ |
| UR CoRéUs - Biocomplexité des écosystèmes coralliens de l'Indo-Pacifique (IRD) Jocelyne Ferraris | ● | | | | ▲ | | |
| ² UPR Dynamics of Natural Forests (CIRAD) Sylvie Gourlet-Fleury | | ▲ | ● | | ▲ | | |
| UR Dynamiques socio-environnementales et gouvernance des ressources (IRD) Team 'Gestion sociale de la nature' Geneviève Michon | | | | | ● | ● | ▲ |
| ^{2,3} UMR ECOLAG - Laboratoire Écosystèmes Lagunaires (CNRS, IFREMER, UM2) Marc Troussellier | | | | | ▲ | | |
| UMR EME (CRH) - Ecosystèmes marins exploités, Centre de Recherche Halieutique méditerranéenne et tropicale (IRD, IFREMER, UM2) Philippe Cury | | | | ▲ | ▲ | | |
| ² UPR EMPA - Locust Ecology and Control (CIRAD) Michel Lecoq | | | | | ▲ | ▲ | |
| UR EPIPREV - Épidémiologie et prévention : environnement et efficacité des interventions (IRD) Kirsten Simondon <i>This research unit was disbanded in January 2009.</i> | | | | | | | ▲ |

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|--|---|---|---|-----|-----|-----|-----|
| ^{1,4} US ESPACE - Expertise et SPAtialisation des Connaissances en Environnement (IRD) Frédéric Huynh | ▲ | ▲ | ▲ | | ▲ | ▲ | ▲ |
| UPR Functioning and Management of Tree-Based Planted Ecosystems (CIRAD) Jean-Pierre Bouillet | ● | ● | ● | ▲ | ▲ | | |
| ¹ UMR G-EAU - Water Resource Management, Actors and Uses (Cemagref, CIHEAM-IAMM, CIRAD, AgroParisTech/ENGREF, IRD, Montpellier SupAgro) Patrice Garin | | | ▲ | ▲ | ▲ | ● | ● |
| ³ UMR Géosciences Montpellier (CNRS, UM2) Serge Lallemand | ▲ | | ▲ | | ● | ▲ | |
| EA GESTER - Gestion des Sociétés, des Territoires et des Risques (UM3) Jean-Marie Miossec | | ● | | | ▲ | ▲ | ▲ |
| UR Great Ice - Glaciers et Ressources en Eau d'Altitude -Indicateurs Climatiques et Environnementaux (IRD) Marie-Pierre Ledru <i>In January 2009, this research unit became part of UMR HydroSciences Montpellier</i> | | | ● | | ▲ | | |
| UPR GREEN - Management of Renewable Resources and Management (CIRAD) Martine Antona | | ▲ | | | ▲ | ● | |
| ^{1,3} UMR HydroSciences Montpellier (CNRS, IRD, UMI, UM2) Éric Servat | ● | ▲ | ▲ | | ▲ | | |
| ^{2,3} UMR ISEM - Institute of Evolutionary Sciences (CNRS, UM2) Jean-Christophe Auffray | | | | | ▲ | | |
| ¹ UMR ITAP - Information and Technologies for AgroProcesses (Cemagref, Montpellier SupAgro) Véronique Bellon-Maurel | ▲ | ● | | ▲ | | | |
| ¹ LGEI - Laboratoire Génie de l'Environnement Industriel et des Risques Industriels et Naturels (EMA) Miguel Lopez-Ferber | | ● | ▲ | | | ▲ | |
| UMR LIRMM - Montpellier Laboratory of Informatics, Robotics and Microelectronics (CNRS, UM2) Michel Robert | | | ▲ | | ● | ● | |
| ¹ UMR LISAH - Laboratoire d'étude des Interactions Sol - Agrosystème – Hydrosystème (INRA, IRD, Montpellier SupAgro) Marc Voltz | ▲ | ▲ | ▲ | ▲ | ● | ▲ | |
| FRE MTE - Mutations des Territoires en Europe (CNRS, UM3, UPVD) Geneviève Cortes | | | | ▲ | ▲ | ● | ▲ |
| URP Pastoralism (CIRAD) Amadou Tamsir Diop | | | ● | ▲ | ▲ | ▲ | ▲ |
| UPR Forest Resources and Public Policies (CIRAD) Alain Billand | | ● | ▲ | | ▲ | | |
| UPR SCA - Annual Cropping Systems (CIRAD) Florent Maraux | | ● | ▲ | ▲ | | | |
| UMR SYSTEM - Tropical and Mediterranean Cropping System Functioning and Management (CIRAD, INRA, Montpellier SupAgro) Jacques Wery | | | | ▲ | | | |
| ^{1,4} UMR TETIS - Geoinformation and Earth Observation for Environment and Land Management (Cemagref, CIRAD, AgroParisTech/ENGREF) Pascal Kosuth | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |

¹ These research units belong to the *Institut Languedocien de Recherche sur l'Eau et l'Environnement* federative research structure (ILEE, IFR 123), Director: Pierre Chevallier, chevalli@msem.univ-montp2.fr; www.ifr-ilee.org

² These research units belong to the *Montpellier Environnement Biodiversité* federative research structure (MEB, IFR 119), Director: Nicole Pasteur, nicole.pasteur@univ-montp2.fr; www.biodiversite-montpellier.org

³ These research units belong to the *Observatoire des Sciences de l'Univers 'Observatoire de recherche Méditerranéen de l'Environnement'* (OSU OREME), Director: Nicolas Arnaud, nicolas.arnaud@gm.univ-montp2.fr

⁴ These research units belong to GEOSUD (Geoinformation for Sustainable Development), Director: Pascal Kosuth, pascal.kosuth@teledetection.fr