

## Sky's the limit

The future of European aviation: Global competitiveness, carbon emissions, air safety, alternative fuels, air traffic management, airport security, and innovation and research

Comment and analysis from MEPs Dominique Baudis, Christine De Veyrac, Anne Jensen, Jörg Leichtfried and Giles Chichester

### Aerodays 2011 preview

French transport secretary Thierry Mariani on the global importance of Europe's aviation industry

**Plus:** EU fisheries policy: Commissioner Maria Damanaki, MEPs Kriton Arsenis & Struan Stevenson



### The decline in bees

Commissioner Dacian Cioloș, MEPs Chris Davies & Julie Girling, Copa-Cogeca's Pekka Pesonen

**Plus:** Water management, Cyprus reunification, Libya crisis and new ECR group leader Jan Zahradil





SINTEF Fisheries and Aquaculture is part of the SINTEF Group of Norway, one of Europe's largest contract research organizations. We contribute to solutions along the whole value chain – from biological and marine production, aquaculture and fisheries to processing and distribution. SINTEF has technological competence and user-oriented knowledge. Our products and services are based on advanced laboratory facilities, software and high-level competence.

SINTEF supports improved focus on industrial development of the European Fishery and aquaculture sector. Science and innovation are an important foundation for technological development. We see this in many other sectors, and the EU's commitment to science has proven to be important in many areas.

Interdisciplinarity is a prerequisite for comprehensive development of the sector. This is made visible through technology platforms like EFTP and EATIP where the industry has joined forces with science. SINTEF thinks it is positive that these kinds of technology platforms are established. We believe that technological research is the key to the success of developing European fisheries and aquaculture. Among other initiatives, SINTEF aims to establish product-oriented projects with high scientific level through the EU Eurostars programme.

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SINTEF Fisheries and Aquaculture is situated in Trondheim, Norway.



SINTEF develops technological solutions in close cooperation with the marine industry.

## Identifying Essential Fish Habitats based on species-preferred living environmental conditions

To identify and map essential fish habitats in the Mediterranean (such as spawning and nursery areas of commercially important species), the Institute of Marine Biological Resources of the Hellenic Centre for Marine Research coordinates two EU-funded projects; EnviEFH (Environmental Approach to Essential Fish Habitat Designation) and EFH-GIS (Identification and Mapping of Essential Fish Habitats using Geographic Information Systems).

In collaboration with other marine research centers and universities from UK, Spain and France, the mapping of EFH is accomplished based on species preferences in optimum environmental conditions for their development and growth. Involved datasets include marine satellite images combined with surveyed species locations in an extensive modeling effort through spatial analysis and GIS. In this environmental approach to EFH

identification, environmental parameters (e.g. temperature, chlorophyll, salinity, sea level, etc) as well as derived oceanic processes (e.g. upwelling, fronts, gyres and eddies) contribute to the final EFH mapped areas for the various stages of a species lifespan. The team of scientists includes fisheries biologists, oceanographers, ecosystem modellers, statisticians, and marine Earth Observation and GIS analysts.



More information on these projects as well as derived publications and special issues may be accessed through <http://arch.her.hcmr.gr/> or contacting Vasilis Valavanis (EnviEFH and EFH-GIS project coordinator), email: [vasilis@her.hcmr.gr](mailto:vasilis@her.hcmr.gr)

