

Mélanie ABECASSIS

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Nationality : French
Birth Date : 10/09/1981
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Engineer ENSTA / MSc in Oceanography and Marine Environment

EXPERIENCE

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- Apr. 2007*
(3 weeks) **Echosounder operator, Research Cruise, NOAA.** *Cross Seamount, Hawaii, USA*
Ship : Oscar Elton Sette. *Chief Scientist* : Dr. Reka Domokos
Bioacoustic cruise to study the distribution and the abundance of bigeye tuna (*Thunnus obesus*) and its preys around Cross Seamount
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- since*
Feb. 2007 **Research Assistant, Pacific Islands Fisheries Science Center, NOAA.** *Honolulu, USA*
Ecosystem and Oceanography Division
Supervisor : Dr. Jeffrey Polovina
- Study of primary production trends in various ocean regions from SeaWiFS data
 - Study of species assemblages in Hawaiian waters from longline logbook data
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- 2006-2007*
(3 months) **Intern, CRIOBE** (Centre de Recherches Insulaires et Observatoire de l'Environnement) – **Te mana o te moana** (environmental non-profit). *Moorea, FRENCH POLYNESIA*
Advisers : Cécile Gaspar and Dr. René Galzin
- Analysis of acoustic tagging data (passive and active) from tags deployed on stingrays (*Himantura Fai*)
 - Characterization of fed and non-fed stingrays home ranges using the « Animal Movement » extension of Arcview 3.
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- 2006*
(6 months) **Intern, Pacific Islands Fisheries Science Center, NOAA.** *Honolulu, USA*
Ecosystem and Oceanography Division
Adviser : Dr. Jeffrey Polovina
- Analysis of tagging data from popup archival tags deployed on *opah* (*Lampris guttatus*)
 - Study of depth and temperature distributions experienced by the fish
 - Link with satellite (Aviso) and oceanographic (World Ocean Atlas) data
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- 2005*
(2 months) **Intern, IIM-CSIC.** *Vigo, SPAIN*
Instituto de Investigaciones Marinas, Oceanography Division
Adviser : Dr. Des Barton
- Analyzed oceanographic data (current meters, wind, CTD, ADCP, ...)
 - Hydrologic sections, TS diagrams
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- 2004*
(2 months) **Intern, ICM-CSIC.** *Barcelona, SPAIN*
Institut de Ciències del Mar, Renewable Resources Division
Adviser : Marta Coll and Dr. Isabel Palomera
- Studied the effects of physical parameters on fish-biomass evolution in the Catalan Sea
 - Modelized those effects with the Ecopath with Ecosim software (software applied to fisheries management)
 - Analysed SeaWiFS data to estimate the phytoplankton biomass evolution

EDUCATION

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- Dec. 2007*
(1 week) **Advanced Spatial Ecology Course** taught by **Pierre Legendre.** *Honolulu, USA*
Recent Advances in Spatial Ecology: Theory and Practice
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- 2005 – 2006* **MSc, Oceanography.** *Paris, FRANCE*
University of Paris VI Pierre et Marie Curie
Major : Pelagic Oceanography
- Instrumental oceanography and methodology
 - Plankton response to environmental and climatic changes

2004 – 2006	<p>MSc, Environmental Engineering. <i>Paris, FRANCE</i> ENSTA : Ecole Nationale Supérieure de Techniques Avancées <u>Majors</u> : Oceanography, Environment <u>Relevant Courses</u> : Oceanography, Environmental Management, Computer Programming, Modelization and Numerical Simulation , Hydraulics</p> <p>European week : BEST(Board of European Students of Technology), <i>Barcelona, SPAIN</i> <u>Subject</u> : Renewable Energies</p>
2003 – 2004	<p>Erasmus year (European college exchange), <i>Valencia, SPAIN</i> University of Valencia - Facultat de Física <u>Relevant Courses</u> : Oceanography, Ecology, Climatology, Environmental Physics</p>
1999 – 2004	<p>BSc, Physics. <i>Orsay, FRANCE</i> University of Paris XI <u>Relevant Courses</u> : Mathematics, Physics, Quantum Mechanics, Electromagnetism, Optics</p>
1999	<p>Baccalauréat (French High School Diploma). <i>Bordeaux, FRANCE</i> <u>Major</u> : Mathematics</p>

LANGUAGES

French	native language
Spanish	fluent
English	fluent (TOEIC : 915/990)
Portuguese	beginner

COMPUTER SKILLS

Systems	Linux, Windows
Programming Languages	MatLab, Scilab, DevC++, GMT
Software	C/C++, XHTML, K-Schell Ecopath with Ecosim, Ocean Data View, Fugawi, Surfer

REFERENCES AND THESES

- Polovina, J.J., Howell, E.A., Abecassis, M. (2008). *Ocean's least productive waters are expanding.* **Geophysical Research Letters**, 35, L03618, doi:10.1029/2007GL031745
- Polovina, J.J., Hawn, D.R., Abecassis, M. (2008). *Vertical movement and habitat of Opah (Lampris guttatus) in the central North Pacific recorded with pop-up archival tags.* **Marine Biology**, 153:257–267
- 2006. Master/ENSTA – Final Internship
Vertical habitats of opah (Lampris guttatus) electronically tagged with pop-up archival satellite tags.
Adviser : Dr. Jeffrey Polovina, PIFSC, Honolulu, USA
- Barton, E.D., Lavin, M., Abecassis, M., 2005. *Response of the inner Gulf of Tehuantepec to direct wind forcing.* Reunión Anual de la Unión Geofísica Mexicana (UGM).
- 2005. ENSTA – Personal Project in Laboratory
Current and hydrographical response of the continental shelf of the Gulf of Tehuantepec, Mexico
Adviser : Dr. Des Barton, IIM, Vigo, Spain
- 2004. BSc - Internship
Modelización de ecosistemas marinos : Aplicación del programa Ecopath with Ecosim para relacionar las cadenas tróficas con los factores ambientales
Advisers : Marta Coll and Dr. Isabel Palomera, ICM, Barcelona, Spain

ACTIVITIES

Diving (CMAS : 3d level, PADI : Advanced Open Water), Salsa, Surfing, Clarinet