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PROFESSIONAL EXPERIENCE

-*since November 2003* : Post-doctoral Researcher in University of Athens (Greece) for EUMARSAND project

-*August 1999 - June 2003*: Researcher at the « **Centre Français du Littoral** » (CFL) seconded to the French Hydrographic Service (SHOM Brest) in order to do a PhD about « Mapping of different characteristic sea level shorelines »:

- ❑ Modelling (numerically and stochastically) tide and extreme levels of the sea,
- ❑ Definition of a globally consistent chart datum with altimetry and geodesy techniques,
- ❑ Mapping of characteristic shorelines using LIDAR, photogrammetry and bathymetry (in bay of Wissant, in Brest harbour, and Ile de Ré).

-*September 1994* : cartographer in CERESA in Bruz (Ille et Vilaine, France)

WORKS and PAPERS

CFL final work report CFL for the Brittany regional council about mapping of different characteristic sea level shorelines, April 2003, 250 pages (in French)

CFL annual work report for CETMEF (French centre of marine and river studies) and SHOM about Mapping of characteristic shorelines using LIDAR technique, Feb. 2003, 54 pages (in French)

Ballay A, B. Simon [2002]: « Towards a globally consistent nautical chart datum definition in France »; Vertical Reference System IAG symposium February 2001, vol. 124 Springer Editions, pp 270-275

Ballay A, B. Simon, G. Wöppelmann [2002] : « Détermination du zéro hydrographique dans un système de référence mondial », 7èmes journées nationale de génie côtier génie civil pp327-334

CFL annual work report for CETMEF and SHOM about mapping of extreme seal levels for different return periods, Feb. 2002, 122 pages. (in French)

CFL annual work report for SHOM about mapping characteristic tide levels, Feb. 2001, 40 pages. (in French)

FORMATION

QUALIFICATIONS

2004 - **PhD** option fluid medium mechanics, university of Caen (France)

1998 - **DEA** (~master degree) Civil Engineering Civil, option coastal engineering, Ecole Centrale de Nantes (France)

1997 - **Maîtrise** (~research degree) in Earth sciences, (option geophysics), university of Rennes 1 (France)

1996 - **Licence** (~bachelor's degree) of Earth Sciences, (option geophysics), university of Rennes 1

1995 - **DEUG A** (2 years degree) Physics - Chemistry, university de Rennes 1

TRAININGS

March July 1998 - DEA research training in Civil Engineering Laboratory of the university of Nantes about " Erosion rate of estuarine mud".

April June 1997 - Application and processing magnetic methods for detecting archaeological ruins. Training made for the society GEOVISION (Oise, France).

March 1997 - Geophysical prospecting methods: seismics, magnetic methods, electric methods (resistivity (Wenner), VLF, Schlumberger sounding), topography.

April May 1996 - processing of aeromagnetic data (signal processing).

October 1995 - mapping training in St Martin de Londres (Hérault, France).

LANGUAGES

French: Mother tongue

English: read, written and spoken

Spanish: basic high school level

COMPUTERS

Programming: Fortran 77, 90, c-shell, tc-shell, Turbo pascal, Perl

System: Unix, Windows

Mapping Software: Generic Mapping Tools (GMT)