« The good man and the sea »



Hommage à Jean-Michel Lefèvre

A dense career dedicated to waves

First step in research on oceanic vertical mixing at CNRM in 1987

From VAG to MFWAM models (strong expertise and links to related topics, member of expert team at WMO)

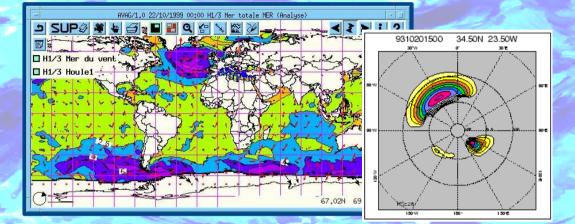
Participation to experimental compaigns and research projects (SEMAPHORE, FETCH, kick-off of MERCATOR,COST714, MEDATLAS, MAXWAVE, WISE group, HYMEX, MYWAVE....)

Diversity of research topics. Among them :

- Freak waves (wave tank Trondheim)
- Sismic noise application to waves
- Coupling ocean-atmosphere

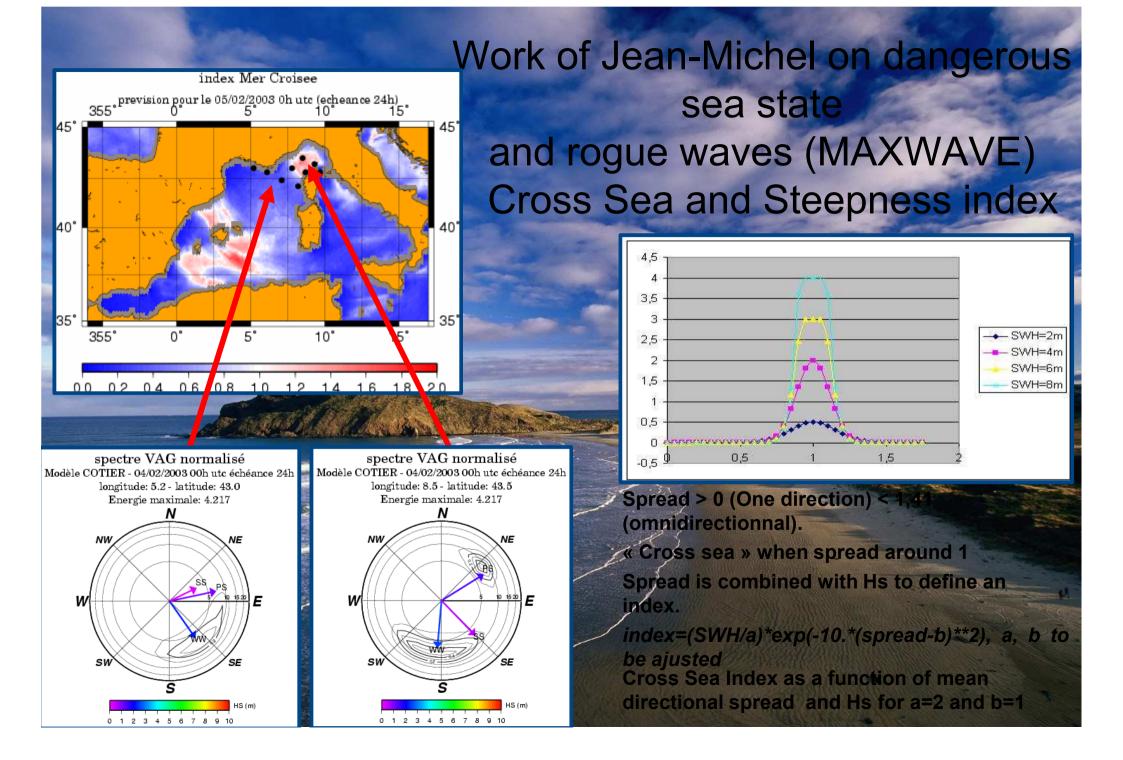
Big progresses initiated and developed by Jean-Michel at Météo-France

Yesterday, 2 VAG models : VAGMED, VAGATL



Today, 22 MFWAM models (new physics : collaboration Shom/Ifremer, global, regional, high resolution AROME...)

Standard fields and data from operational numerical models

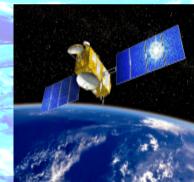


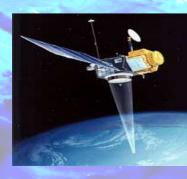
Use of wave satellite data (altimeters and SAR)

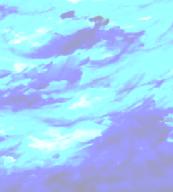
Strong collaboration with CNES teams SWT and OSTST member since 1990

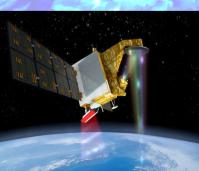
Assimilation in operational wave models since 1998 (Topex/Poseidon, ERS1-2, Jason-1 & 2, Envisat-Ra2 and SAR, SARAL...)

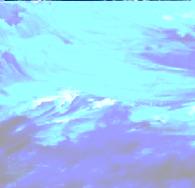
From VAGSAT to CFOSAT (science team member)

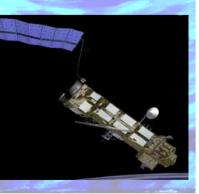












Topex/Poseidon Verification workshop, February 22-25, 1993

Jean-Michel has at heart to share his knowledge

Training and lectures organised by WMO, EUMETSAT...

Teaching at Ecole Nationale de la Météorologie (Météo-F

Supervising, supporting and valued the work of young scientist

Jean-Michel Lefevre

Satellite Altimeter SWH and win - successive samples at ~ 6 km step along the ground track (1 waveforms)

- NOT an imager/mapper, narrow ground track with 10 and 3 - Polar orbit with 66-98 deg. Inclination, non sun synchronou

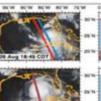
THE GOOD Accurate and well calibrated High spatial resolution (<10 km) Global All (most) weather Long-time series (dates back to 80s) Multi-satellites likely 2010-2020

THE BAD No swath Limited daily coverage for forecast applications Strong rain can affect accuracy/ availability Not good for very low sea states

EUMETSAT/IODE Training Course Applications of Satellite Wind and Wave Products for Marine Foreca 5 - 9 December 2011, Oostende, Belgium



Lecturer:





« The good man and the sea »

Exceptional human skills :

sense of humour and cheerfulness, modesty, curiosity, enthousiasm...

easy interaction with all scientific partners...



Lucky are those who had the chance to deal with him.

« The good man and the sea »

The 5th April 2014, after one Year of brave fight, you left us.

His wife and his sons miss him deeply...

We miss you too, we will keep the tradition of « good mood and modesty »

Jean-Michel, you will go on your trip on the waves

