



Università
Ca' Foscari
Venezia

TITOLO PROGETTO: PREFACE - Enhancing PRediction oF tropical Atlantic Climate and its impacts

PROGRAMMA DI FINANZIAMENTO: VII FP - Cooperation

BANDO: FP7-ENV-2013-two-stage

STRUTTURA (DIPARTIMENTO/CENTRO): DIPARTIMENTO DI SCIENZE AMBIENTALI, INFORMATICA E STATISTICA

DATI FINANZIARI:

Costo complessivo del progetto	Finanziamento Europeo Complessivo Assegnato
12.181.008,87	8.999.433,00

SINTESI DEL PROGETTO:

Tropical Atlantic climate recently experienced pronounced shifts of great socio-economic importance. The oceanic changes were largest in the eastern boundary upwelling systems. African countries bordering the Atlantic strongly depend upon their ocean - societal development, fisheries, and tourism. They were strongly affected by these climatic changes and will face important adaptation challenges associated with global warming. Furthermore, these upwelling regions are also of great climatic importance, playing a key role in regulating global climate.

Paradoxically, the Tropical Atlantic is a region of key uncertainty in earth-climate system: state-of-the-art climate models exhibit large systematic error, climate change projections are highly uncertain, and it is largely unknown how climate change will impact marine ecosystems. PREFACE aims to address these interconnected issues, and has the following goals:

- To reduce uncertainties in our knowledge of the functioning of Tropical Atlantic climate.
- To improve climate prediction and the quantification of climate change impacts in the region.
- To improve understanding of the cumulative effects of the multiple stressors of climate variability, greenhouse induced climate change, and fisheries on marine ecosystems, and ecosystem services (e.g., fisheries, coastal vulnerability).
- To assess the socio-economic vulnerabilities and evaluate the resilience of Atlantic African fishing communities to climate-driven ecosystem shifts and global markets.

To meet these goals we bring together European and African expertise to combine regional and global scale modeling capabilities, field experiments and observation systems. Our target region includes areas more affected by climate change and by its consequences, European outermost regions, and African countries bordering the Atlantic.

Inizio attività (previsione)	Fine attività (previsione)
01/11/2013	31/10/2017

PARTENARIATO:

1	UNIVERSITETET I BERGEN	BERGEN (NO)	Coordinator
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2	KOBENHAVNS UNIVERSITET	KØBENHAVN (DK)	Partner
3	CENTRE EUROPEEN DE RECHERCHE ET DE FORMATION AVANCEE EN CALCUL SCIENTIFIQUE	TOULOUSE (FR)	Partner
4	INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT	MARSEILLE (FR)	Partner
5	METEO-FRANCE	SAINT MANDE CEDEX (FR)	Partner
6	UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6	PARIS (FR)	Partner
7	HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL	KIEL (DE)	Partner
8	INSTITUT FUER OSTSEEFORSCHUNG WARNEMUENDE AN DER UNIVERSITAET ROSTOCK	ROSTOCK (DE)	Partner
9	JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI	BRAUNSCHWEIG (DE)	Partner
10	CHRISTIAN-ALBRECHTS-UNIVERSITAET ZU KIEL	KIEL (DE)	Partner
11	UNIVERSITA CA' FOSCARI VENEZIA	VENEZIA (IT)	Partner
12	WAGENINGEN UNIVERSITY	WAGENINGEN (NL)	Partner
13	HAVFORSKNINGSINSTITUTTET	BERGEN (NO)	Partner
14	UNI RESEARCH AS	BERGEN (NO)	Partner
15	FUNDACIO INSTITUT CATALA DE CIENCIES DEL CLIMA	BARCELONA (ES)	Partner
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17	THE UNIVERSITY OF READING	READING (UK)	Partner
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19	MINISTRY OF FISHERIES AND MARINE RESOURCES	WINDHOEK (NAM)	Partner
20	UNIVERSITY OF CAPE TOWN	RONDEBOSCH (ZA)	Partner
21	INSTITUTO NACIONAL DE DESENVOLVIMENTO DAS PESCAS	MINDELO - SAN VICENTE (CV)	Partner
22	INSTITUT NATIONAL DE RECHERCHE HALIEUTIQUE	CASABLANCA (MA)	Partner
23	INSTITUT SENEGALAIS DE RECHERCHES AGRICOLES	DAKAR (SN)	Partner
24	UNIVERSITE CHEIKH ANTA DIOP DE DAKAR	DAKAR FANN (SN)	Partner
25	UNIVERSITE D'ABOMEY-CALAVI	ABOMEY CALAVI (BEN)	Partner
26	CENTRE DE RECHERCHES OCEANOLOGIQUES	ABIDJAN (CI)	Partner
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28	UNIVERSITE LIBRE DE BRUXELLES	BRUXELLES (BE)	Partner