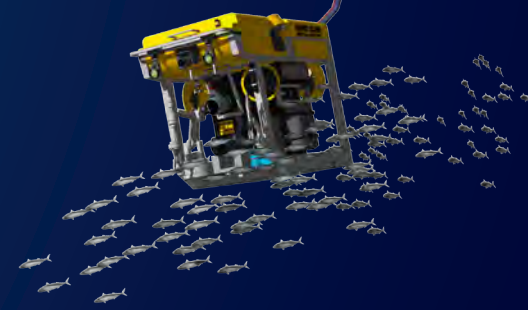


# MeshAtlantic

VIDEO SURVEY TECHNIQUES WORKSHOP



# MESH ATLANTIC



*'Investing in our common future'*

All the way from  
image acquisition to  
habitat mapping

## WORKSHOP PROGRAMME



**20/22** June 2011  
Faro - University of Algarve/CCMAR

## MONDAY 20/06/2011

08.30 REGISTRATION

09.30 WELCOMING SPEECH

09.40 INTRODUCTION TO MESH ATLANTIC AND WORKSHOP GOALS  
(JACQUES POPULUS)

### 10.00 SESSION 1 – VIDEO SURVEYING TECHNIQUES (CHAIRMAN: JORGE GONÇALVES)

10.00 METHODS AND STANDARDS FOR VISUAL SURVEYS OF THE SEABED AND ITS FAUNA IN NORWAY  
(PÅL BUHL-MORTENSEN & L. BUHL-MORTENSEN)

11.00 COFFEE (BREAKOUT)

### 11.30 SESSION 1 – VIDEO SURVEYING TECHNIQUES (CHAIRMAN: FERGAL MCGRATH)

11.30 VIDEO SURVEYING TECHNIQUES FOR SEAFLOOR HABITAT MAPPING  
(FERNANDO TEMPERA, J.N. PEREIRA, A. BRAGA-HENRIQUES, C. PHAM, D.CUVELIER & J. FONTES)

12.00 A NEW PHOTOGRAMMETRIC AND QUANTITATIVE METHOD FOR THE STUDY OF BENTHIC HABITATS AND BIOLOGICAL COMMUNITIES OF THE DEEP SEA  
(FRANCISCO SÁNCHEZ & A. GARCÍA-ALEGRE)

12.30 LUNCH

### 14.00 SESSION 2 – VIDEO ACQUISITION AND PROCESSING (CASE STUDIES) (CHAIRMAN: ROSA FREITAS)

14.00 MAPPING OF MEGAFUNA DENSITIES AND DISTRIBUTION IN THE HAAKON MOSBY MUD VOLCANO (HMMV) CALDERA  
(ELENA GOROSLAVSKAYA)

14.30 EVALUATION OF THE MEGAFUNA ASSOCIATED WITH DEEP-SEA CORALS FROM CAMPOS BASIN, BRAZIL, THROUGH ROV IMAGING: PROBLEMS AND SOLUTIONS  
(RENATA C. M. ARANTES, G. DE H. CAVALCANTI, M. P. C. FERNANDEZ, R. B. DE MOURA, P. M. COSTA & A. C. S. BRASIL)

15.00 BIODIVERSITY AND DISTRIBUTION OF FAUNAL ASSEMBLAGES: THE POLYMETALLIC NODULE ECOSYSTEM OF THE EASTERN EQUATORIAL PACIFIC OCEAN  
(VIRGINIE TILOT)

15.30 COMBINED IMAGE TECHNIQUES TO ESTIMATE  $CaCO_3$  PRODUCTION BY BRAZILIAN RHODOLITH BEDS  
(GUILHERME H. PEREIRA-FILHO, R. FRANCINI-FILHO, R. L. DE MOURA, A.C. BASTOS, A. Z. GUTH, P. Y. SUMIDA & G. M. AMADO-FILHO)

16.00 COFFEE (BREAKOUT)

### 16.30 SESSION 2 – VIDEO ACQUISITION AND PROCESSING (CASE STUDIES) (CHAIRMAN: VICTOR HENRIQUES)

16.30 A PROPOSED METHODOLOGY TO ESTIMATE NEPHROPS BURROW DENSITY IN DEEPWATER GROUNDS FROM VIDEO ANALYSIS  
(PAULO FONSECA, A. CAMPOS, V. HENRIQUES, P. L. CORREIA & P. YEE LAU)

17.00 DETECTION, MEASUREMENT AND RECOGNITION OF FISH SPECIES UNDERWATER  
(YURI. RZHANOV, G. CUTTER, J. MATAI & R. KASTNER)

17.30 END

18.00-19.30 MESH ATLANTIC HAPPY HOUR

## TUESDAY 21/06/2011

### 09.00 SESSION 3 – VIDEO ANNOTATION (CHAIRMAN: JACQUES POPULUS)

09.00 METHODOLOGY OF ANNOTATING VIDEOS AND STILL IMAGES AND DEVELOPMENT OF THE SOFTWARE COVER  
(INGE VAN DEN BELD, B. GUILLAUMONT, C. CARRÉ, L. BEUCK & J. DAVIES)

10.00 PRACTICALITIES OF IMPLEMENTING VIDEO ANNOTATION  
(JOSÉ N. PEREIRA & F. TEMPERA)

11.00 COFFEE (BREAKOUT)

### 11.30 SESSION 4 – STATISTICAL MODELLING AND TIME SERIES (CHAIRMAN: FERNANDO TEMPERA)

11.30 MODELLING BENTHIC BIOTOPES: FROM FIELD SURVEYS TO RELIABLE MAPS  
(GENOVEVA GONZALEZ MIRELIS)

12.30 TIME SERIES STUDIES OF ECOSYSTEM PROCESSES AT SEAFLOOR OBSERVATORIES  
(KATLEEN ROBERTS, KIM JUNIPER, M. MATABOS, C. DEAN & V. TUNNICLIFFE)

13.00 LUNCH

### 14.00 SESSION 5 – PRACTICING (CASE STUDIES) (CHAIRMAN: IBON GALPARSORO)

14.00 ANALYSING VIDEOS AND STILL IMAGES OF VULNERABLE MARINE ECOSYSTEMS IN THE DEEP-SEA: A PRACTICAL APPLICATION USING COVER  
(INGE VAN DEN BELD, B. GUILLAUMONT, C. CARRÉ & J. DAVIES)

14.30 IDENTIFICATION OF INVERTEBRATES FROM UNDERWATER PHOTOGRAPHS AND VIDEO: HOW FAR CAN WE GO?  
(SERGE GOFAS, C. SALAS & J.E. GARCÍA RASO)

15.00 CABLED OBSERVATORIES VIDEO-IMAGING FOR THE STUDY OF BEHAVIOURAL RHYTHMS IN DEEP-SEA SPECIES  
(JACOPO AGUZZI, J.B. COMPANY, C. COSTA & P. MENESATTI)

15.30 FIRST OBSERVATIONS OF MORIBUND JELLYFISH AT THE SEAFLOOR IN A DEEP-SEA FJORD  
(ANDREW K. SWEETMAN)

16.00 COFFEE (BREAKOUT)

### 16.30 SESSION 6 – HABITAT MAPPING (CASE STUDIES) (CHAIRMAN: JORGE GONÇALVES)

16.30 IMAGE MOSAICING FOR THE MULTIPLE COUNTING PROBLEM IN BENTHIC HABITAT MAPPING  
(HAMED BAGHERI, A. VARDY & R. BACHMAYER)

17.00 THE FP7 CORALFISH PROJECT: PROMOTING STANDARDISED APPROACHES TO HABITAT MAPPING AND CLASSIFICATION IN THE DEEP-SEA  
(ANTHONY GREHAN AND THE CORALFISH CONSORTIUM)

17.30 MULTI-SCALE MAPPING OF COLD-WATER CORAL HABITATS ON THE IONIAN MARGIN (MEDITERRANEAN SEA)  
(ALESSANDRA SAVINI, A. VERTINO, B. LOUBRIEU, F. MARCHESE, C. CORSELLI, A. FREIHWALD, J. SARRAZIN & M. TAVIANI)

18.00 END

## WEDNESDAY 22/06/2011

### 09.00 SESSION 7 – DISCUSSION (MODERATOR: FERGAL MCGRATH)

09.00 PROS AND CONS OF METHODS USED FOR VISUAL MAPPING AND RESULTS FROM MEGAFUNA MAPPING BY MAREANO  
(LENE BUHL-MORTENSEN & P. BUHL-MORTENSEN)

09.30 RECOMMENDED OPERATIONAL GUIDELINES (ROGS)/STANDARDS  
(FERNANDO TEMPERA)

11.00 COFFEE (BREAKOUT)

### 11.30 SESSION 4 – DISCUSSION (MODERATORS PÅL BUHL-MORTENSEN, FERNANDO TEMPERA AND JACQUES POPULUS)

12.45 CLOSING SESSION

13.00 END

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ATLANTIC AREA Transnational Programme  
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ERDF ATLANTIC 2014-2020  
ERDF ATLANTIC 2021-2027



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