List of Abstracts Accepted for Paper and Post Presentations at CoastGIS 2011

[TC = 'Technical' - MA = 'Methods and Applications' - TH = 'Thematic' - NT = 'Non-Technical]

TC-001
OCEAN RADAR WERA, A TOOL FOR COASTAL MANAGEMENT
Leif Petersen¹, Matthias Kniephoff², Markus Valentin¹, Thomas Helzel¹, Vincent Mariette², Marc Pavec²
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Keywords: Coastal radar, currents, waves, predictions

TC-002
A MARINE BIOLOGICAL GIS FOR EUROPE, BASED ON OGC STANDARDS
Simon Claus, Leen Vandepitte, Bart Vanhoorne, Nathalie De Hauwere, Francisco Hernandez
Flanders Marine Institute, Oostende, Belgium - Corresponding: simon.claus@vliz.be
Keywords: marine biology, data integration, GIS, data portal, Europe

TC-003
GIS AS A TOOL TO STUDY AND PRESERVE SAND DUNES (BULGARIAN COAST)
Hristo Stanchev¹ (stanchev@io-bas.bg), Atanas Palazov² (palazov@io-bas.bg)
Margarita Stancheva¹ (stancheva@io-bas.bg)
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Keywords: GIS modelling, spatial data infrastructure, sand dune inventory, coastal geodiversity

TC-004
CCM2 HYDROLOGICAL CODE AS EXAMPLE FOR A COASTAL CODING SYSTEM
Alfred L. de Jager, Joint Research Centre of the European Commission, Institute for Environment and
Sustainability (alfred.de-jager@jrc.ec.europa.eu)
Keywords: Hydrology, Interoperability, Coding, Islands, Coastline, World

TC-005
THE USE OF AERIAL SURVEYS TO MEET THE ECOLOGICAL SPATIAL DATA REQUIREMENTS OF THE
MARINE RENEWABLES INDUSTRY
David Campbell (d.campbell@apemltd.co.uk), Alastair Graham (a.graham@apemltd.co.uk), Stuart Clough
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APEM Ltd., A17 Embankment Business Park, Stockport SK4 3GN, UK,
Keywords: offshore renewable energy, marine mammal, aerial survey, ornithology, remote sensing

TC-006
INFORMATION SYSTEMS FOR COASTS AND SEAS: A HOLISTIC APPROACH TO SYSTEM
DEVELOPMENT
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mail:timothy.stojanovic@st-andrews.ac.uk
Keywords: Information Systems, Information Science, Management Tools for ICZM and Marine Planning.

TC-007
USING RAPIDEYE DATA FOR DETECTING VEGETATION CHANGES CAUSED BY EXTREME
HYDROLOGICAL EVENTS IN THE ELBE ESTUARY
Anke Bahls (anke.a.bahls@tu-berlin.de), Birgit Kleinschmit (birgit.kleinschmit@tu-berlin.de)
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Keywords: Remote sensing, RapidEye, multi-temporal, multi-seasonal, environmental monitoring
TC-009

A GEOPORTAL FOR THE SCHELDT ESTUARY

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**Keywords:** Geoportal, data, metadata, Standards, Open Source

TC-010

COASTAL SENSIBILITY AND RISK EVALUATION TO SEA LEVEL RISE: A STUDY CASE IN SANTA CATARINA ISLAND, BRAZIL

Carolina Schmanech Mussi (carolinamussi@hotmail.com), Rafael Medeiros Sperb (rsperb@univali.br), João Thadeu de Menezes (thadeu@univali.br)
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2 Geoprocessing Lab, University of Itajaí Valley, Brazil

**Keywords:** Climate Change, Sensitivity Index, Risk Assessment, Geographic Information System, Hyogo Framework for Action.

TC-011

COASTAL EROSION AND ARTIFICIALIZATION, ROLE OF GIS AND VISUAL IMAGE ANALYSIS

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Department of Geography New University of Lisbon, (oscarduarteantunes@fcsh.unl.pt)

**Keywords:** Coastal Areas, GIS, Visual Image Analysis, Land Use Map (COS), Portugal, Espinho, Costa de Caparica, Ilha de Faro

TC-012

AUTOMATIC SHORE LINE DETECTION AND ANALYZING SEDIMENT TRANSPORT: CASE STUDY ISTANBUL-TERKOS/TURKEY

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**Keywords:** Pixel-Based classification, shoreline detection, remote sensing, shoreline change, sediment transport

TC-013

TRANSFERABILITY OF A REMOTE SENSING APPROACH FOR COASTAL LAND COVER CLASSIFICATION

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André Theron, CSIR, NRE, Stellenbosch, South Africa, (atheron@csir.co.za)

**Keywords:** Remote sensing land cover classification, integrated coastal monitoring, Landsat, SPOT, RapidEye
TC-014
SPATIAL PLANNING OF THE LAND-BASED MARINE RADAR SENSORS BY USING 3D CARTOGRAPHIC MODEL OF THE PORT AND URBANIZED AREAS
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Chair of Geoinformatic, Maritime University of Szczecin, Poland
Keywords: spatial planning, 3D port model, radar sensors, viewshed analysis, navigation

TC-015
SURVEY AND BIODIVERSITY IDENTIFICATION OF MANGROVE COVERAGE IN LAGOS LAGOON OF LAGOS STATE, NIGERIA
*Hannah Omoloye Omogoriola, Akanbi Bamikole Williams, Fisayo Christie Olakolu, Stella Ukamaka Ukaonu, Aderonke Mojisola Adegbile, Akintoye E Akinigbagbe Akintunde A. Ajulo and Ayo Ajila
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Keywords: Survey; Mangroves Ecosystem; Biodiversity; Lagos Lagoon; Lagos State

TC-016
LOCATION, LOCATION, LOCATION: LOCATING, MAPPING, AND SOURCING BEACH LITTER AT THE COAST
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Keywords: Mobile, GIS, GPS, Barcode, Beach Litter, Mapping

TC-017
LA TELEDETECTION ET LES SIG, OPORTUNITE DE GERER DURABLEMENT LE LITTORALIVOIRIEN
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Keywords:

TC-018
THE LNS WEB-GIS: A FISH MIGRATION DATA AND INFORMATION RESOURCE
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Keywords: North Sea, Fish, Migration, Resource, WebGIS

TC-019
Implementation of Korea Operational Oceanographic Information System using Web-GIS
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Chang S. Kim, Marine Environment & Pollution Prevention Research Department, Korea Ocean R&D Institute, surfkim@kordi.re.kr
Keywords: Operational Oceanographic System, Korea, Web-GIS, Scientific visualization, Spatial Analysis
TC-020

Web-GIS based Saemangeum Coastal Information System

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Keywords: Saemangeum, Coastal environment, Web-GIS, Scientific visualization, Spatial Analysis, Decision Making

TC-021

MORPHOLOGICAL GEOGRAPHIC INFORMATION SYSTEM FOR THE PORTUGESE COASTAL ZONE (AVEIRO REGION)

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Keywords: GIS, Costal Zone, Morphodynamics, Open Source

TC-022

USING GIS TOOLS TO MONITOR THE COASTAL STRETCH OF COSTA DA CAPARICA (PORTUGAL)

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Keywords: sand nourishment, hydrographic surveys, hydro-morphological dynamics, shoreline variation.

TC-023

SACRED COWS BUTTING HEADS: INTEGRATING OPERATIONAL MARINE DATA PRODUCTS INTO ALTERNATE VISUALIZATION APPROACHES (ESRI AND GOOGLE)

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Corresponding author: m.brown.nsb@gmail.com

Keywords: IDVsoftware, KML/KMZ format, NetCDF format, OPeNDAP Protocol, Shapefiles

TC-024

FLOOD MONITORING AND DAMAGE ASSESSMENT BASED ON HIGH RESOLUTION SPACEBORNE SYNTHETIC APERTURE RADAR (SAR) SYSTEMS

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Keywords: flood monitoring, damage assessment, high resolution spaceborne synthetic aperture radar (SAR) systems, cadastral data integration
TC-025
SPATIAL INFORMATION MANAGEMENT APPLICATION: SEMANTIC SENSOR WEBS FOR COASTAL FLOODING
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Alasdair Gray, University of Manchester, UK. A.Gray@cs.man.ac.uk
Keywords: Real-time, sensor data, open source GIS, coastal flood risk

TC-026
GOOGLE EARTH NAVIGATION INFORMATION SYSTEM (GENIS)
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Keywords: Google Earth, 3D, Situational Awareness

TC-028
FUGRO LADS MK 3 AIRBORNE LIDAR BATHYMETRY TECHNOLOGY DEVELOPMENT
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Keywords: Airborne Lidar Bathymetry, Coastal Zone Management, Hydrography, LADS, Hydrographic Survey

TC-029
WHAT LIES BENEATH: EXPLORATIONS IN SEASCAPE VISUALIZATION
Rosaline Canessa (Rosaline@uvic.ca)
Department of Geography, University of Victoria, Victoria, British Columbia, Canada
Keywords: seascape; visualisation; virtual reality; marine protected area

TC-030
MODELLING AND VISUALISING VULNERABILITY OF COASTAL SYSTEMS TO ENVIRONMENTAL CHANGE
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Keywords: coastal vulnerability; fuzzy cognitive mapping; geovisualisation

MA-001
SHORELINE CHANGE RATE ANALYSIS ALONG THE RAMSAR WETLANDS AT THE MEDITERRANEAN COAST IN TURKEY
Associate Prof. Dr. Tuncay Kuleli (kuleli@cu.edu.tr – tkuleli@gmail.com), Itri Levent Erkol, MSc.
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Keywords: coastline change; coastal erosion; DSAS; LANDSAT; Mediterranean
MA-002
MODELLING SEABED PHYSICAL HABITAT
Jacques Populus, Anouar Hamdi, Mickaël Vasquez, IFREMER, France, Corresponding author: jpopulus@ifremer.fr
Keywords: EUNIS, seabed habitat, marine habitat, MESH

MA-003
GEOSPATIAL DATA ANALYSIS FOR COASTAL MORPHOSYSTEMS MAPPING
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Keywords: coastal morphosystems, geospatial data analysis, systematic approach, remote sensing data, digital elevation model

MA-004
UNDERSTANDING THE VARIATION IN PHYSICAL PROCESSES IN MANAGEMENT OF THE COAST OF GUERNSEY
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Keywords: Variation in Physical Processes, Management, Coastal of Guernsey

MA-005
SPATIAL EXPLICIT TOOLS TO SUPPORT AN ECOSYSTEM-BASED MARINE SPATIAL PLANNING IN THE GERMAN EEZ
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Keywords: generalized additive models (GAM), geographic information system (GIS), German EEZ, marine spatial planning (MSP), nursery grounds, Pleuronectes platessa, spatial management scenario

MA-006
THE ENVIRONMENTAL INFORMATION NETWORK OF ANDALUSIA’S COASTAL AND MARINE INFORMATION SYSTEM’S VIEWER AS A TOOL TO SUPPORT THE INTEGRATED COASTAL ZONE MANAGEMENT
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REDIAM. Regional Ministry of Environment of Andalusia (Spain)
Keywords: Environmental Information Network of Andalusia (REDIAM), Coastal and Marine Information System (CMIS), Integrated Coastal Zone Management (ICZM), OGC services, coast, marine, maritime, viewer.

MA-007
THE USE OF SPATIAL NARRATIVES TO PROMOTE STEWARDSHIP OF COASTAL RESOURCES
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Annette Drewes, University of Minnesota Extension USA, (aldrewes@umn.edu)

**Keywords:** spatial narrative, spatial literacy, stewardship, place-based games, coastal heritage tourism, Great Lakes, Wisconsin, Minnesota, St. Louis River, estuary, watershed, National Estuarine Research Reserve

**MA-008**

**FLOODS IN THE COASTAL ZONE OF TOGO: IS GIS THE BEST WAY OF AN EFFICIENT MANAGEMENT’S APPLICATION?**

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**Keywords:** Coastal zone, disaster, flooding, damage, adaptation, GIS, riposte.

**MA-009**

**DECISION SUPPORT SYSTEM FOR THE SUB-SYSTEM OF MARINE PROTECTED AREAS IN COLOMBIA**

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**Keywords:** Decision support System, Marine Protected Areas, Colombia

**MA-010**

**SENSITIVITY OF COASTAL FLOOD RISK ASSESSMENTS TO DIGITAL ELEVATION MODELS: CASE STUDY LAGOS STATE, NIGERIA**

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**Keywords:** DEM, Data Accuracy, Coastal Flood Risk Mapping, SRTM DEM, ASTER GDEM

**MA-011**

**NON PARAMETRIC ESTIMATION OF THE SEA STATE BIAS IN JASON-1 MEASUREMENTS AND THEIR EFFECT ON MEDITERRANEAN MEAN SEA SURFACE HEIGHT**

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**Keywords:** Jason-1; nonparametric model; Sea State Bias; Significant Wave Height; Wind Speed; Sea Surface Height; Western Mediterranean Sea

**MA-012**

**DEVELOPMENT OF GEOGRAPHIC INFORMATION SYSTEM AS A TOOL FOR IMPLEMENTATION OF INTEGRATED COASTAL ZONE MANAGEMENT IN RUSSIA**

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**Keywords:** Integrated Coastal Zone Management (ICZM), Geographic Information System (GIS), Information Space, Communication.

**MA-013**

**GIS BASED SENSITIVITY ASSESSMENT OF THE AL HOCEIMA BAY TO CLIMATE CHANGE AND SEA LEVEL RISE (MOROCCAN MEDITERRANEAN COAST)**
MA-015
DEVELOPMENT OF A DECISION SUPPORT TOOL (DST) FOR KENYA’S COASTAL MANAGEMENT
Aura S.¹, Ngunjiri C.², Maina J.³, Oloo P.³, and Muthama J.⁴
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Keywords: ELCOM Model; Three-dimensional; Bathymetry; Tide; Decision Support Tool; Kenyan coastline

MA-016
ASSESSMENT OF EUROPE’S COASTAL ZONES - DATA SOURCES AND ANALYTICAL TOOLS
Andrus Meiner and Johnny Reker
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Keywords: EU environmental policies, data sources, coastal zones, spatial analysis

MA-017
LANDSCAPE METRICS AND VEGETATION INDICES TO ASSESS ENVIRONMENTAL CHANGES IN MANGROVES – EXAMPLE OF TWO ESTUARIES IN SOUTHEASTERN BRAZIL
Luis A. Conti, Escola de Artes Ciências e Humanidades, Universidade de São Paulo, E-mail: lconti@usp.br
Carlos Alberto Sampaio de Araújo, Instituto Oceanográfico, Universidade de São Paulo, E-mail: ca_sampaio@hotmail.com
Keywords: Mangrove, Estuary, Remote Sensing, Landscape Metrics, Brazil, Vegetation Indices, GIS, Time Change Detection.

MA-018
SIARL - COASTAL RESOURCE MANAGEMENT SYSTEM IN PORTUGAL
António Mota Lopes¹ (mota.lopes@igeo.pt), António João Herdeiro¹ (ajherdeiro@igeo.pt), Ricardo Sena² (ricardogsena@gmail.com), André Leitão² (andre.leitao@advantis.pt)
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Keywords: coastal integrated management, information systems, open software, geographic information, monitoring, land use, interventions, events and hazards, management plans, constraints, participation, cooperation, convergence; INSPIRE, ICZM

MA-019
ECOLOGICAL GYMNASTICS – COMBINING A TOP-DOWN AND BOTTOM-UP APPROACH TO BIOTYPE MODELLING
Caroline Chambers¹, Bryony Pearce¹, Jackie Hill², Dave Tappin², Dayton Dove²
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Keywords: habitat, mapping, modelling, marine, biology, ecology, seabed, benthic, GIS

MA-020
IMPLICATIONS OF ACCESSIBILITY DEGREE IN DANUBE DELTA HUMAN COMMUNITY, ROMANIA

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Keywords: accessibility degree, biosphere reserve, sustainable development, Danube Delta, Romania

MA-021

MARINE AND COASTAL DATABASE MANAGEMENT AND GEOGRAPHICAL INFORMATION SYSTEM CONTRIBUTION FOR MARINE RESEARCHES: CASE OF GULF OF GABES, TUNISIA

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Keywords: Marine and coastal GIS, database assessment and management, metadata, ISO 19139, gulf of Gabes, remote sensing and modelling.

MA-022

GRIDDING AND ARCHIVING OF SATELLITE-DERIVED OCEANOGRAPHIC DATA FOR ANY REGION ON EARTH

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Keywords: chlorophyll concentration, total suspended matter concentration, sea surface temperature, MODIS, MERIS

MA-023

A GIS-BASED DSS FOR CLIMATE CHANGE RISK ASSESSMENT AND MANAGEMENT IN COASTAL AREAS: APPLICATION IN THE SALT PROJECT

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Alex Zabeo¹, Sara Pasini¹ (sara.pasini@cmcc.it), Felix Iyalomhe¹ (iyalomhe2003@yahoo.com)

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Keywords: DSS, Climate Change, Regional Risk Assessment, Groundwater, Saline Intrusion

MA-024

CLASSIFICATION METHODS FOR COASTAL MONITORING: CASE STUDY ISTANBUL-TERKOS/TURKEY

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Keywords: Pixel-Based classification, object oriented classification, shoreline detection, remote sensing
GIS BASED DB BUILDING FOR MONITORING AND MODELING FOR SUSTAINABLE MANAGEMENT OF YEONGSAN ESTUARY

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Keywords: Estuary, Integrated DB, Spatial Data, Estuary Management System

TH-001
A FRENCH ATLAS FOR POTENTIAL SOURCES OF MICROBIOLOGICAL POLLUTION OF HUMAN OR ANIMAL ORIGIN BASED ON CARTOGRAPHIC INFORMATION

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Ifremer, DCN/EMP/REMI - Coordination of the French programme for official control of microbiological contamination of shellfish

Keywords: microbial source tracking, pollution sources, sanitary survey, atlas, Geographical Information System (GIS)

TH-002
THE POETS GULF TO BE PRESERVED AS WORLD HERITAGE WITH PORTOVENERE

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Keywords: literature history, marine landscape, environmental preserving

TH-005
APPLICATION OF GEOGRAPHIC INFORMATION SYSTEM IN COASTAL FOR ELECTION OF BEACH TOURISM FOR RECREATION CATEGORY AT BUNGUS BAY, PADANG CITY

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Keywords: Geographic Information System (GIS), Beach Tourism, Coastal Area

TH-006
LAND USE CHANGE IN THREE PORTUGUESE REGIONS SUBJECT TO COASTAL EROSION

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Keywords: Land Use Change, Coastal Erosion, Portugal, Espinho, Costa da Caparica, Ilha de Faro

TH-007
MARINE FORECASTS: TECHNICAL APPLICATION, TOOLS AND COMMUNICATION

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Keywords: coastal vulnerability, fluctuation, sustainable development, coastal hazards, marine forecast

TH-008
THE URBANFLOOD EARLY WARNING SYSTEM: SENSORS AND COASTAL FLOOD SAFETY
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\(^6\)Siemens Russia; \(^7\)TNO
**Keywords:** Flood Early Warning, ICT and Climate Change, sensor networks, dike failure prediction, flood management information

TH-009
VULNERABILITY OF DELTAS TO COASTAL HAZARDS AND ITS IMPACT ON GEOMORPHIC SETUP ALONG CENTRAL EAST COAST OF INDIA
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Ameerpet, HYDERABAD-500 038, India
**Keywords:** Coastal Geomorphology, tropical cyclones, landform changes, vulnerability

TH-010
QUALITATIVE SURVEY IN THE DELINEATION OF CUSTOMARY MARINE TENURE BOUNDARY IN THE STUDY OF EMPOWERING INDIGENOUS COASTAL COMMUNITY IN MALUKU ISLAND, INDONESIA
Andri Hernandi (andri@gd.itb.ac.id), Marisa Mei Ling (marisa@gd.itb.ac.id),
Rizki Abdulharis (kiki_gis@yahoo.com)
Geodesy and Geomatic Engineering, Bandung Institute of Technology, Indonesia
**Keywords:** survey mapping, customary marine tenure, Maluku Island

TH-011
SPATIAL ANALYSIS OF THE DYNAMICS OF BENTHIC SPECIES DISTRIBUTION IN RELATION TO THEIR ENVIRONMENT: THE CASE OF PINK SHRIMP IN THE NORTHERN MOROCCO ATLANTIC AREA
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**Keywords:** GIS, Spatial Animal Movement tool, Pink shrimp

TH-012
DIFFERENTIAL DYNAMIC RANGE OF TWO STATES OF BEACH: AN EXAMPLE OF THE COAST OF TOGO IN WEST AFRICA
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E-mail : wilsonbahun@gmail.com
**Keywords:** Landform, accumulation, reflexive, hydrosedimentary, littoral drift, diachronic study, coastal erosion, coastline, morphosedimentary, spatiotemporal dynamics

TH-014
GIS IN IDENTIFICATION OF IRREGULAR OCCUPATIONS AND ENVIRONMENTAL IMPACTS IN CLIFFS AREAS: THE CASE OF COLINAS DE JACUMÃ AND ENSEADA DO GRAÚ LOTS, ON THE SOUTHERN COAST OF PARAIBA – BRAZIL

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Keywords: APP, Cliff, Geoprocessing, Irregular Areas, Environmental Impact.

TH-015

CHLOROPHYLL PRODUCTIVITY VARIATION MONITORING ALONG THE MOROCCAN ATLANTIC COAST: THE USE OF MODIS AQUA IMAGES INTEGRATED INTO A GIS

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Keywords: Chlorophyll-a concentration, Sea Surface Temperature, Modis Aqua, GIS.

TH-016

MEAN SEA LEVEL TREND AND SEA LEVEL VARIATION IMPACT ON THE CUBAN ARCHIPELAGO

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Keywords: sea level, Climate Change, ENSO, coastal ecosystems, coastal flooding.

TH-017

TEAMSURV – CROWD SOURCING IN HYDROGRAPHIC SURVEYING

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1 Smartcom Software Ltd, 2 MPG Software, 3 Amber Route UAB

Keywords: Hydrographic survey, crowd sourcing, bathymetry, TeamSurv, navigation charts

TH-018

LAND USE CHANGE IMPACT ON COASTAL VULNERABILITY: SUBSIDIES FOR RISK MANAGEMENT AND COASTAL ADAPTATION

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Keywords: land use change, land cover change, coastal zone, environmental vulnerability, GIS

TH-019

SPATIAL CHANGES IN THE WETLANDS OF LAGOS/LEKKI LAGOONS OF LAGOS, NIGERIA: INTERIM RESULTS

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NT-001
APPLYING SPATIAL DATA INFRASTRUCTURE TO MARINE SPATIAL PLANNING
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Keywords: Marine Evidence, Marine Spatial Planning, Spatial Data Infrastructure

NT-002
MAPPING UK SEA SPACE
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Keywords: Data Capture, Mapping, Legislation, Spatial Data Infrastructure

NT-003
DATA MANAGEMENT: CREATING A LEGACY FOR MARINE RENEWABLES PROJECTS AND MARINE SPATIAL PLANNING
Alison Lucas Collier BSc MSc CITP MCert, GIS Development Coordinator, Gardline Marine Sciences Ltd, UK. E-mail: alison.collier@gardline.com
Keywords: Data Management, Marine Spatial Data Infrastructure, Marine Renewables, Geographic Information Systems, Data Access and Dissemination

NT-004
A GEOSPATIAL FRAMEWORK TO SUPPORT ECOSYSTEM BASED MANAGEMENT AND MARINE SPATIAL PLANNING FOR THE TRANSBOUNDARY GRENADE ISLANDS
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Keywords: marine spatial planning, participatory GIS, ecosystem-based management

NT-006
THE COLOMBIAN WEB-BASED MARINE ATLAS: A CONTRIBUTION TO THE DISSEMINATION OF REGIONAL ICAM INDICATORS IN THE SOUTHEAST PACIFIC
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Leonardo Arias Aleman (ljarias@invemar.org.co)
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Keywords: Marine atlas, ICAM, ICZM, indicators, Colombia, Southeast Pacific

NT-007
US ARMY CORPS OF ENGINEERS ECOASTAL PROGRAM FOSTERS AN ENTERPRISE APPROACH TO DATA MANAGEMENT
Clint Padgett, US Army Corps of Engineers-Mobile District, Clint.Padgett@us.army.mil
Keywords: GIS, eCoastal, Navigation & Coastal Data Bank, Coastal Mapping
NT-008
INFORMATION MANAGEMENT AND ANALYSIS OF THE GEOGRAPHICAL SYSTEM OF SHORELINE
MANAGEMENT IN THE WEST OF WALES
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Keywords: Geographical System, Shoreline Management, West of Wales

NT-009
CONCEPT AND IMPLEMENTATION OF THE GERMAN
MARINE DATA INFRASTRUCTURE
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Keywords: metadata, ISO19115, ISO19119, OGC Web services, marine data infrastructure, information
system, European Framework Directives, EU reporting

NT-010
ICES WEB GIS, A SPATIAL DATA INFRASTRUCTURE TO SUPPORT THE AREA BASED SCIENCE AND
MARINE SPATIAL PLANNING INITIATIVES AT THE INTERNATIONAL COUNCIL FOR THE
EXPLORATION OF THE SEA (ICES)
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Liebig-Weg 6, 18059 Rostock, Germany
Keywords: Spatial data infrastructure, Metadata, Open source, GeoServer, GeoNetwork

NT-011
COASTAL DATA EXCHANGE: AN EXAMPLE OF SUCCESSFUL DATA SHARING
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Keywords: Dataportal, realtime data, monitoring, north east coast UK, WMS

NT-012
SUPPORTING MARINE SPATIAL PLANNING WITH A MULTIPURPOSE MARINE CADASTRE
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Enforcement
Keywords: Marine Cadastre, Marine Spatial Planning, Decision-Support Tools, Marine Spatial Data
Infrastructure

NT-013
MARINE AND COASTAL SPATIAL DATA ANALYSIS AND MANAGEMENT WITHIN WEB-GIS SYSTEM
FOR DATA ACCESS AND SUSTAINABILITY ON ROMANIAN BLACK SEA COASTAL ZONE
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Department of Oceanography, Marine and Coastal Engineering, NIMRD, Constanta, Romania
Keywords: Web-GIS, Remote sensing, Integrated coastal zone management, Vulnerable areas

NT-014
THE OREGON MARINE MAP PROJECT: AN ONLINE TOOL TO ASSIST IN MARINE SPATIAL PLANNING
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Keywords: marine spatial planning, public involvement, data visualisation, KML, open source GIS

NT-015
SEAZONE HYDROSPATIAL II: A MARINE MAPPING TOOL FOR INTEGRATED COASTAL ZONE MANAGEMENT
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Keywords: Marine mapping, Integrated Coastal Zone Management, Spatial Data Infrastructure, INSPIRE

NT-016
OCEANIDS: MEETING THE NEEDS OF DEVELOPING STATES TO EXPLORE, ANALYZE AND SHARE OCEAN DATA
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Keywords: Marine data, Mapping, Developing states, Visualization, Data sharing, Portal

NT-017
THE CASE OF MISSION INTERSERVICES MER ET LITTORAL (MIMEL)
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Laurence David¹ (laurence.david@univ-brest.fr)
¹ Géomer (UMR LETG 6554 CNRS), ² Terra Maris (SARL)
Keywords: Spatial Data Infrastructure (SDI), organisation and collaboration of government services, anti-pollution fight, maritime regulations, Integrated Coastal Zone Management (ICZM).

NT-018
COLLABORATIVE GOVERNANCE OF MARINE PROTECTED AREAS AND PUBLIC PARTICIPATION GEOGRAPHIC INFORMATION SYSTEMS (PPGIS) IN MARGOV
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Lia Vasconcelos² (ltv@fct.unl.pt)
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² Faculty of Science and Technology of the New University of Lisbon (FCT-UNL)
Keywords: Geographic Information Systems (GIS), Public Participation Geographic Information Systems (PPGIS), GIS Web Applications (WebGIS), Crowdsourcing, Marine Protected Areas.

NT-019
NDSKIS: A DISTRIBUTED MARINE AND COASTAL INFORMATION SYSTEM
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¹ ICBM, University of Oldenburg, ² Iul, University of Applied Sciences Osnabrück
Keywords: Marine and Coastal Information System, GIS, Spatial Data Infrastructure, Distributed Systems, Social Software, Seabed Habitats

NT-020
MEETING THE “BILLION URL CHALLENGE” OF THE COASTAL MANAGER
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Atlantic Coastal Zone Information Steering Committee Secretariat
Keywords: Atlantic Canada, Spatial Data Infrastructure, Integrated Coastal and Ocean Management, Open Geospatial Consortium, standards, web-mapping services, KML, networks, metadata ACZISC, COINAtlantic, Canada’s Ocean Act, COINAtlantic Search Utility, COINAtlantic GeoContent Generator, GeoConnections.

NT-021
AN OCEANOGRAPHIC AND METEOROLOGICAL SERVICE-ORIENTED INFRASTRUCTURE AIMED AT PUBLIC USE FOR NAUTICAL SPORTS: WWW.SURFSPOTS.ES
Felipe Fernández (fernandezf@unican.es), Víctor Velarde (velardev@unican.es)
Luis Pedraz (pedrazl@unican.es), Antonio Espejo (espejoa@unican.es), Paula Camus (camusp@unican.es), Fernando Méndez (mmendezf@unican.es), Raúl Medina (medinar@unican.es)
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Keywords: service, infrastructure, surf

NT-022
THE DEVELOPMENT OF A METHOD TO DELINEATE MARINE BOUNDARIES USING A GIS
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Keywords: Spatial Data, Marine Boundary, Support System, EEZ

NT-023
COASTAL SPATIAL DATA INFRASTRUCTURE IN SOUTH AFRICA: THE NEEDS OF A TRANSFORMING SOCIETY IN A DEVELOPING COUNTRY
Louis Celliers, Natural Resources and the Environment, CSIR, lcelliers@csir.co.za
Wim Hugo, South African Environmental Observation Network, wim@saeon.ac.za
Niel Malan, Department of Environmental Affairs, dmalan@environment.co.za
Keywords: integrated coastal management, coastal spatial data infrastructure, data platform, institutional framework

POSTERS

P-001
SPATIAL ASSESSMENT AND IMPACT OF ARTISANAL FISHERIES’ ACTIVITY IN CAP DE CREUS
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Susana Requena Moreno (srequena@icm.csic.es),
Josep-Maria Gili (gili@icm.csic.es)
Department of Marine Biology & Oceanography, Institute of Marine Sciences (ICM-CSIC)
Keywords: métier, GIS, fishing spatial activity, MPA, fisheries management

P-002
BASELINE HABITAT MAPPING AND ASSESSMENT OF THE PULAU BANYAK ARCHIPELAGO, SUMATRA- TOWARDS COASTAL SPATIAL PLANNING OF A TOURISM-CONSERVATION AREA
Ruben Venegas, Keto Foundation, rvenegas@fundacionketo.org
Lucia Morales, School of Natural, University of Wales, Bangor, afpc3c@bangor.ac.uk
Maggie Muurmans, Yayasan Pulau Banyak, maggiemuurmans@gmail.com

Keywords: Pulau Banyak, coastal planning, island ecotourism, coral reef mapping, Aceh

P-003
ASSESSMENT OF SEA LEVEL RISE USING GEOGRAPHICAL INFORMATION SYSTEMS AND DEM DATA FOR CUKUROVA DELTA COASTAL ZONE
Associate Prof. Dr. Tuncay Kuleli, (E-mail: kuleli@cu.edu.tr – tkuleli@gmail.com)
İtri Levent Erkol, MSc., (E-mail: levent.erkol@gmail.com)
Faculty of Fisheries University of Cukurova, Balcali, 01330, Adana, Turkey.

Keywords: Sea level rise; GIS; DEM; Cukurova Delta; Turkey; coastal zone

P-004
A PARTICIPATORY GIS METHODOLOGY FOR STRUCTURING GROUP COLLABORATIONS WITH MARXAN ON MULTI-USER TOUCH TABLES: APPLICATIONS FOR MARINE CONSERVATION AREAS PLANNING
Cathryn Brandon1 (catyrose@uvic.ca), Rosaline Canessa1 (rosaline@uvic.ca),
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2 GeoMemes Research Inc.

Keywords: participatory GIS, Marxan, collaboration, multi-user touch table, group decision-making

P-005
ESTABLISHMENT OF AN INTEGRATED GIS AND DB SYSTEM FOR MARINE GEOLOGICAL DATA AND GEOPHYSICAL DATA OF KOREAN WATERS
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Ocean Data Division, KORDI, KORDI : Korea Ocean Research & Development Institute

Keywords: Integrated GIS and DB, Marine Geological data, Marine Geophysical data, ArcGIS

P-006
SEA LEVEL RISE FLOOD HAZARD MAPPING IN THE CATALAN COAST (NW MEDITERRANEAN)
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Keywords: sea level rise, GIS, flooding, land covers, coastal management

P-007
SENSITIVITY OF COASTAL FLOOD RISK ASSESSMENTS TO DIGITAL ELEVATION MODELS - CASE STUDY LAGOS STATE, NIGERIA
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Keywords: DEM, Data Accuracy, Coastal Flood Risk Mapping, SRTM DEM, ASTER GDEM

P-008
DEVELOPMENT OF THE MOBILE GIS SERVICES OF KOREA OCEAN BIOGEOGRAPHIC INFORMATION SYSTEM
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Sang-Ho Baek2 (prideshaq@kordi.re.kr), Hyuk-Min Park2 (hyukmin@kordi.re.kr)
P-009
DEVELOPMENT OF AN INTEGRATED DB/GIS FOR OCEAN TEMPERATURE-SALINITY DATA OF THE NORTH PACIFIC MARGINAL SEAS
Sung-Dae Kim, Sang-Hwa Choi, Soo-Young Park, Bit-na-ra Kim
Ocean Data Division, KORDI: Korea Ocean Research & Development Institute
Keywords: Mobile Marine GIS, KOBIS, Occurrence Information, Marine Organism, OBIS

P-010
CLIMATE CHANGE AND COASTAL ADAPTATION: USING GIS AND VISUALISATION TO IDENTIFY ISSUES AFFECTING COASTAL COMMUNITIES IN ABERDEEN, SCOTLAND, UK
David R. Green, Guillaume De La Fons, Thomas Bedford, and Thomas Danks
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Keywords: IMCORE, GIS, Flooding, Scenario, Visualisation

P-011
INVESTIGATION AT GLOBAL AND MEDITERRANEAN SCALES OF MEAN SEA LEVEL VARIABILITY
Mahdi Haddad, Salem Kahlouche, Mohamed Faouzi Belbachir, Ali Rami
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University of Science and Technology of Oran, Department of Electronics, Signals, Systems and Data Laboratory, BP 1505, Oran El M'Naouer. Oran, Algeria.
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Keywords: mean sea level variability; global and Mediterranean scales; satellite altimetry; sea level anomalies; singular spectrum analysis; harmonics and trend extraction.

P-012
THE BLAST DECISION SUPPORT SYSTEM BASED ON INDICATORS FOR CLIMATE CHANGE; CASE STUDY OF SUITABILITY MAPPING FOR MARINE ENERGY POTENTIAL
Els Verfaillie, Koen De Baets, Pieter Mathys, Stefaan Gysens and Philippe De Maeyer
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Corresponding author: Els.Verfaillie@UGent.be
Ghent University – Department of Civil Engineering
Flemish Government, Agency for Maritime and Coastal Services, Coastal Division
Keywords:

P-013
ECONOMIC VALUATION OF SABINE BANK: SAND RESOURCE VERSUS FISHERY HABITAT
Andres Cardenas, Timothy Dellapenna, Jae-Young Ko
Department of Marine Sciences at Texas A&M University at Galveston
Keywords: Sand Mining, Sand Bank, Fishery, Gulf of Mexico

P-014
WAMIS: A WATER MANAGEMENT INFORMATION SYSTEM
Felipe Fernández, Víctor Velarde
Keywords:
P-015
A COMPREHENSIVE GIS APPROACH TO DREDGING-RELATED STUDIES AND DATASETS FOR THE BELGIAN COASTAL WATERS AND THE SCHELDT ESTUARY
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Chantal Martens, afdeling Maritieme Toegang, chantal.martens@mow.vlaanderen.be
Kenneth Cools, Geo Solutions NV, kenneth.cools@geosolutions.be
Keywords: Maritime Access, Maritieme Toegang, GIS, dredging, studies, coastal waters

P-016
GIS AS AN APPROPRIATE TOOL FOR STUDY OF WEST AFRICAN COASTAL VULNERABILITY TO OIL OR DANGEROUS PRODUCT SPILLS
AFFIAN Kouadio, DJAGOUA Eric Valère Me me, KOUAME Adonis Krou Damien, MOBIO Abaka, SALEY Mahaman Bchir and DA Diby Hyppolite
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Summary Statistics
- 91 abstracts have been accepted for oral presentations
- 16 posters have been accepted (1 more coming)

Contributors are from the following 35 nations and 5 international organisations [EEA, EC (JRC), UNEP GRID-A, ICES, IOC IODE]:

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