

## 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

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**Keywords:** Coastal radar, currents, waves, predictions

TC-002

### A MARINE BIOLOGICAL GIS FOR EUROPE, BASED ON OGC STANDARDS

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**Keywords:** marine biology, data integration, GIS, data portal, Europe

TC-003

### GIS AS A TOOL TO STUDY AND PRESERVE SAND DUNES (BULGARIAN COAST)

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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

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**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

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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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**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

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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<sup>1</sup> (carolinamussi@hotmail.com), Rafael Medeiros Sperb<sup>1</sup>(rsperb@univali.br), João Thadeu de Menezes<sup>2</sup> (thadeu@univali.br)*

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**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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**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 CARTHOGRAPHIC MODEL OF THE PORT AND URBANIZED AREAS**

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**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 LITTORAL IVOIRIEN**

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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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**Keywords:** *Operational Oceanographic System, Korea, Web-GIS, Scientific visualization, Spatial Analysis*

TC-020

### **Web-GIS based Saemangeum Coastal Information System**

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K. S. Park ([kspark@kordi.re.kr](mailto:kspark@kordi.re.kr)), Climate Change & Coastal Disaster Research Department of Korea Ocean R&D Institute,

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

TC-021

### **MORPHOLOGICAL GEOGRAPHIC INFORMATION SYSTEM FOR THE PORTUGUESE COASTAL ZONE (AVEIRO REGION)**

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**Keywords:** GIS, Coastal 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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**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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**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**

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**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**

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**Keywords:** coastline change; coastal erosion; DSAS; LANDSAT; Mediterranean

MA-002

### **MODELLING SEABED PHYSICAL HABITAT**

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**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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updated as of 14 June 2011

Vincent Smith, Nelson Institute for Environmental Studies, University of Wisconsin-Madison USA, (vmsmith2@wisc.edu)

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)**

updated as of 14 June 2011

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**Keywords:** climate change, sea level rise, sensitivity assessment, GIS

MA-015

### **DEVELOPMENT OF A DECISION SUPPORT TOOL (DST) FOR KENYA'S COASTAL MANAGEMENT**

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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**

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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**

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**Keywords:** Mangrove, Estuary, Remote Sensing, Landscape Metrics, Brazil, Vegetation Indices, GIS, Time Change Detection.

MA-018

### **SIARL - COASTAL RESOURCE MANAGEMENT SYSTEM IN PORTUGAL**

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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 BIOTOPE MODELLING**

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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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**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

MA-025

## **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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**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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<sup>6</sup>Siemens Russia; <sup>7</sup>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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**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**

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**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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**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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**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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**Keywords:** Lagoons, Wetlands, Spatial changes, Remote sensing, GIS.

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**

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**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 GRENADINE 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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**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**

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**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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**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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**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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**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:** Public marine data, Mapping, Developing states, Visualization, Data sharing, Portal

NT-017

## **THE CASE OF MISSION INTERSERVICES MER ET LITTORAL (MIMEL)**

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**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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**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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**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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**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**

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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**

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**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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**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**



updated as of 14 June 2011

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**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**

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**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**

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**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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**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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**Keywords:** Mobile Marine GIS, KOBIS, Occurrence Information, Marine Organism, OBIS

P-009

### **DEVELOPMENT OF AN INTEGRATED DB/GIS FOR OCEAN TEMPERATURE-SALINITY DATA OF THE NORTH PACIFIC MARGINAL SEAS**

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**Keywords:** Marine Internet GIS, Ocean Temperature Salinity, Integrated Ocean DB, North Pacific Marginal Seas

P-010

### **CLIMATE CHANGE AND COASTAL ADAPTATION: USING GIS AND VISUALISATION TO IDENTIFY ISSUES AFFECTING COASTAL COMMUNITIES IN ABERDEEN, SCOTLAND, UK**

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**Keywords:** IMCORE, GIS, Flooding, Scenario, Visualisation

P-011

### **INVESTIGATION AT GLOBAL AND MEDITERRANEAN SCALES OF MEAN SEA LEVEL VARIABILITY**

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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<sup>1</sup>, Koen De Baets<sup>1</sup>, Pieter Mathys<sup>2</sup>, Stefaan Gysens<sup>3</sup> and Philippe De Maeyer<sup>1</sup>

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**Keywords:**

P-013

### **ECONOMIC VALUATION OF SABINE BANK: SAND RESOURCE VERSUS FISHERY HABITAT**

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**Keywords:** Sand Mining, Sand Bank, Fishery, Gulf of Mexico

P-014

### **WAMIS: A WATER MANAGEMENT INFORMATION SYSTEM**

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**Keywords:** management, water, quality, WAMIS

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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**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**

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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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Brazil	Bulgaria	Canada	Colombia
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Italy	Japan	Kenya	Korea
Morocco	Nigeria	Poland	Portugal
Romania	Russia	South Africa	Spain
The Netherlands	Togo	Tunisia	Turkey
UAE	USA	UK/Scotland/Wales	

*updated as of 14 June 2011*