

Environmental data and information in the Caribbean

(supplement to CARICOM presentation:

(1) UNSD/UNEP Questionnaire on Environment Statistics(2) Examples of various types of data source outside government statistics)

Charles Davies, UNEP Regional Office for Latin America and the Caribbean 7 February 2014





UNSD data collection in environment statistics

- UNSD collects data through the UNSD/UNEP Questionnaire on Environment Statistics from non-OECD/Eurostat countries every two years.
- The Questionnaire is sent to national statistical offices and ministries of environment and focuses on water and waste statistics.
- UNSD/UNEP Questionnaire 2013 on Environment Statistics (7th round) is currently underway

(http://unstats.un.org/unsd/environment/questionnaire.htm)

UNSD/UNEP data collection—water statistics

- 1. Renewable Freshwater Resources (W1)
- 2. Freshwater Abstraction and Use (W2)
- 3. Water Supply Industry (ISIC 36) (W3)
- 4. Wastewater Generation and Treatment (W4)
- 5. Population Connected to Wastewater Treatment (W5)





UNSD/UNEP data collection—waste statistics

- 1. Generation of Waste by Source (R1)
- 2. Management of Hazardous Waste (R2)
- 3. Management of Municipal Waste (R3)
- 4. Composition of Municipal Waste (R4)
- 5. Management of Municipal Waste City data (R5)



UNSD Questionnaires: 1999-2010: Responses as of 15 February 2011

Country	1999	2001	2004	2006	2008	2010
Anguilla				Anguilla	Anguilla	Anguilla
Antigua and Barbuda				Antigua and Barbuda	Antigua and Barbuda	Antigua and Barbuda
Bahamas		Bahamas				Bahamas
Barbados	Barbados	Barbados				
Belize	Belize	Belize	Belize	Belize	Belize	Belize
Bermuda				Bermuda	Bermuda	Bermuda
British Virgin Islands				British Virgin Islands	British Virgin Islands	
Dominica			Dominica	Dominica		
Grenada		Grenada				
Guyana		Guyana			Guyana	Guyana
Jamaica		Jamaica	Jamaica	Jamaica	Jamaica	Jamaica
St. Vincent and the Grenadines		St. Vincent and the Grenadines	St Vincent and the Grenadines			
Suriname			Suriname	Suriname	Suriname	Suriname
Trinidad and Tobago			Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	



UNSD dissemination

UNSD disseminates data through:

- UNSD Environmental Indicators (Air and climate, Biodiversity, Energy and minerals, Forests, Governance, Inland water resources, Land and agriculture, Marine and coastal areas, Natural disasters, and Waste) (http://unstats.un.org/unsd/environment/qindicators.htm)
- Country Files (access restricted to countries and international organizations that participate in the data collection (http://unstats.un.org/unsd/environment/Questionnaires/i ndex.asp)
- Country Snapshots (include UNSD environmental indicators and other economic/demographic data

(http://unstats.un.org/unsd/environment/Questionnaires/cou ntry_snapshots.htm)

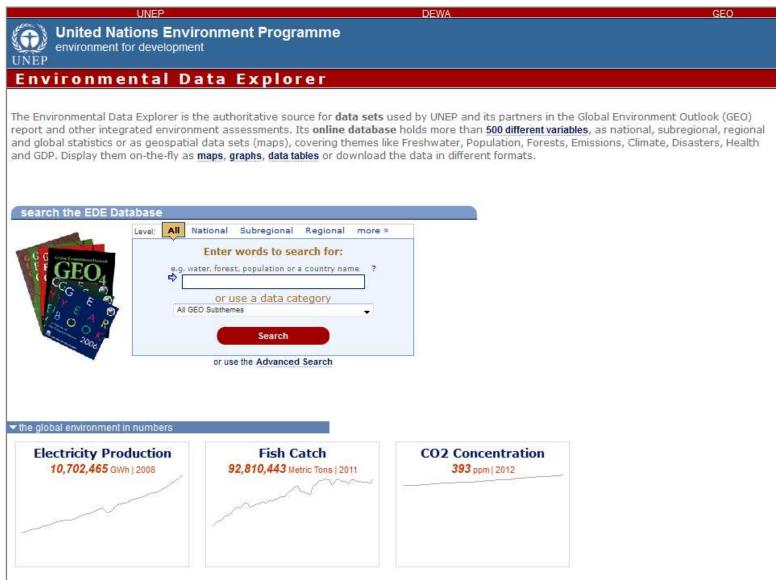
• Environment statistics in UNData (http://data.un.org/)



UNEPLIVE VICTOR DUR CHANGING ENVIRONMENT: PLACE BY PLACE

Select Theme Select Country/Region/Global SEARCH V Or **UNEP Priority Areas** Climate Change **Disasters & Conflicts** Ecosystem Management Environmental Governance Harmful Substances **Resource Efficiency Environment Under Review Integrated Analysis** Air Quality-Health-Climate Change Measuring Progress Towards Global Environmental Goals

Environmental Data Explorer



http://geodata.grid.unep.ch/

MDGs

nited Nations Statistics Division Department of Economic and Social Affairs United Nations		
Millennium Development Goals Indica The official United Nations site for the MDG Indicators	tors	
HOME DATA INDICATORS DOCUMENTS CAPACITY BUILDING LINKS CONTACTS		
earch Criteria Series Data		
Please use the controls below to select at least one country and one series, and then click Vi	ew Data	
Tree View Flat View	Countries Regions	Display Options
All MDGS Goal 1. Eradicate extreme poverty and hunger Goal 2. Achieve universal primary education Goal 3. Promote gender equality and empower women Goal 4. Reduce child mortality Goal 5. Improve maternal health Goal 6. Combat HIV/AIDS, malaria and other diseases Goal 7. Ensure environmental sustainability Goal 7. Ensure environmental sustainability Target 7.A: Integrate the principles of sustainable development into country Goal 7. Ensure the principles of sustainable development into country Target 7.B: Reduce biodiversity loss, achieving, by 2010, a significant reduction Target 7.D: By 2020, to have achieved a significant improvement in the lives Goal 8. Develop a global partnership for development	Australia on ir Austria Azerbaijan Bahamas of a Bahrain Bangladesh Barbados Belarus Belgium	 Display data type (country data, estimate, etc) Group series with the same indicator Group results by: Indicator Country View Data
< •	Belize	

http://unstats.un.org/unsd/mdg/Default.aspx

World Database on Protected Areas



www.wdpa.org, protectedplanet.net (information from national governments, used to produce global statistics and track MDG 7 and Aichi Target, good site to access national protected area information). Managed by World Conservation Monitoring Centre and IUCN.

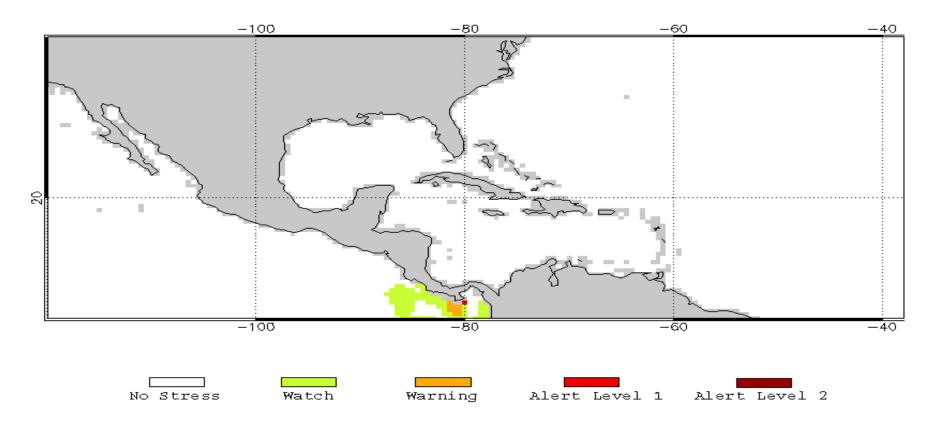
The International Disaster Database (EM DAT)

Centre for Research on the Epidemiology of Disasters - CRED Search						
Iome About Country Profile Disaster P		es DISDAT ends Maps	FAQs	ļ		
me = <u>Database</u> = Database atabase						
EM-DAT Database Please note that we have proceeded to a complete update	ADVANCED SEARCH	Eng	Create your dataset	•		
rease note that we nave proceeded to a compare update of the database, including new changes and enhancements which may imply major modifications in the historical data. Feel free to contact us through e-mail <u>E-mail</u> or using our <u>contact form</u> if you have any questions	COUNTRY PROFILE		Disaster by Country	•		
The reproduction and communication of the information obtained using the EM-DAT is authorised by any means and in all forms, provided that the source is mentioned clearly as follows:	DISASTER PROFILES	SS &	Summary of Events	•		
EM-DAT: The OFDA/CRED International Disaster Database - <u>www.emdat.be</u> - Université catholique de	DISASTER LIST		Generate list events	×		
Louvain - Brussels - Belgium.	REFERENCE MAPS		Pre-made maps	×		
	DISASTER TRENDS	H man H	Pre-made graphs			

<u>http://www.emdat.be/</u> (the widely cited disaster database including country profiles – data from international agencies and non-government sources)

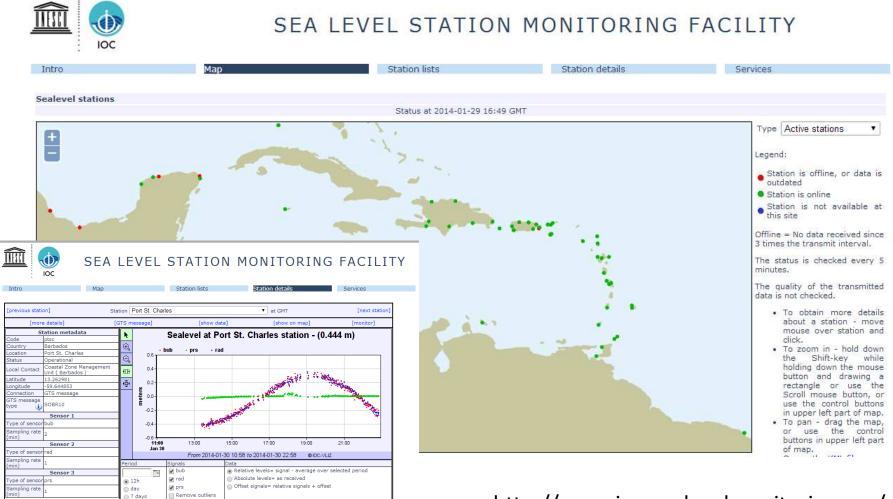
Coral Reef Watch

NOAA/NESDIS Bleaching Alert Area, 1/30/2014



http://coralreefwatch.noaa.gov/satellite/baa.php

UNESCO IOC sea level



Remove spikes

30 days

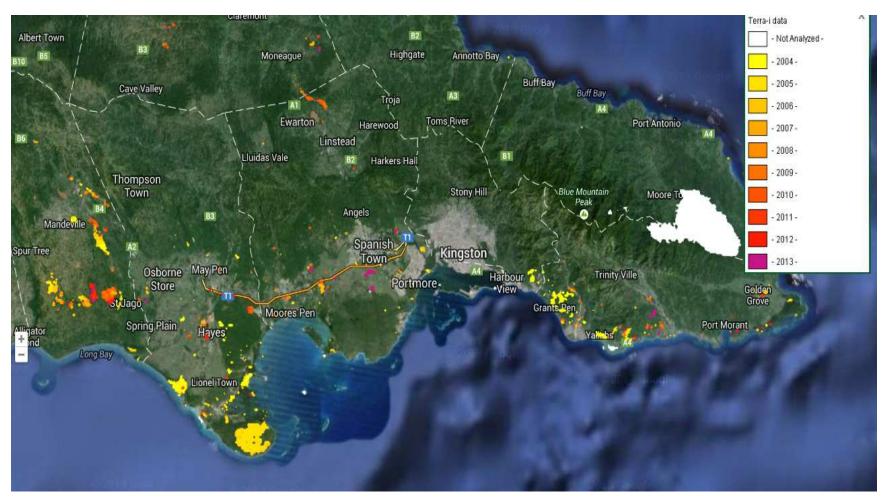
http://www.ioc-sealevelmonitoring.org/

Caribbean land cover



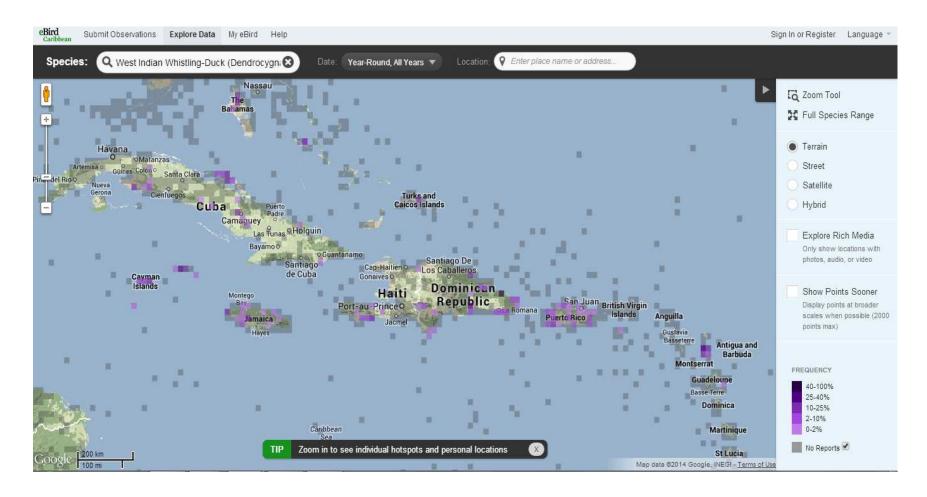
www.geosur.info (network of geospatial data providers, a programme of the Latin American Development Bank (CAF)—Caribbean land cover data from US Forest Service)

Real-time land cover monitoring (Terra-i)



<u>www.terra-i.org</u> (example of a programme using satellite data to generate time series land cover change maps)

Caribbean e-bird Atlas



ebird.org (example of "citizen science", many are really expert communities)

RED List (IUCN)



http://www.iucnredlist.org/

UNEP analysis and data (latter two from UNEP

Caribbean Environment Programme—Jamaica)

- Caribbean Environment Outlook (with CARICOM) (1999 and 2004)
- Assessment and Management of Environmental Pollution (AMEP) Atlas; Assessment report on pollutant loadings in Caribbean Sea
- Marine mammals database (at www.car-spaw-rac.org)



Priorities and gaps

- More effective coordination of information in support of different national and regional policy processes (Partnership Initiative)
- Comparable time series on key regional and national indicators
- Data used for policy-focused information and analysis