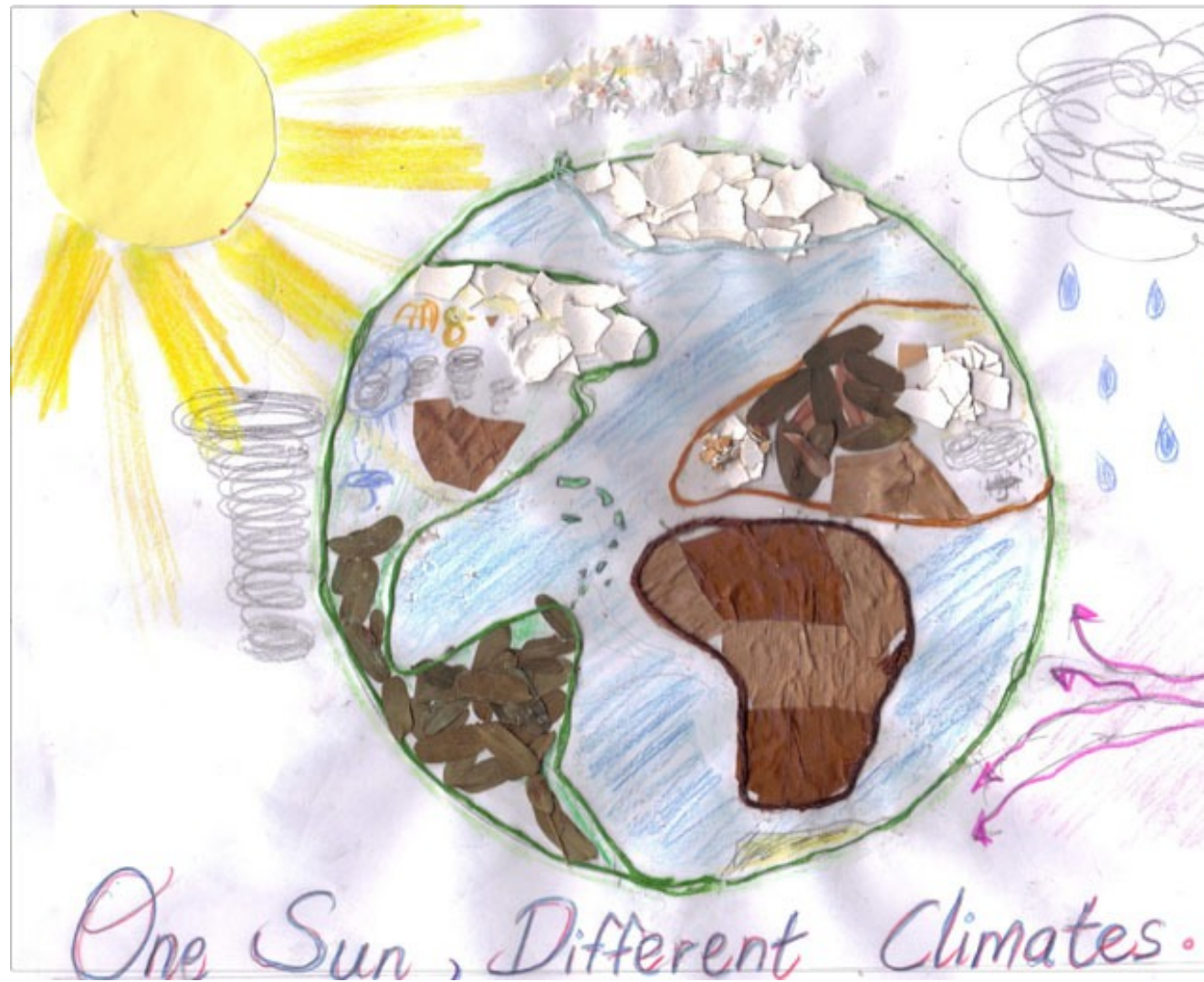




Winning poster from
Dominica's World
Meteorological Day student
poster competition
(Dominica Meteorological
Service)

WMO Region IV

National Climate Monitoring Products
Deke Arndt, USA/NOAA

WMO Region IV

- Many different countries and climate regimes
- Large continental nations, young island nations, tropical to polar climates



Various products

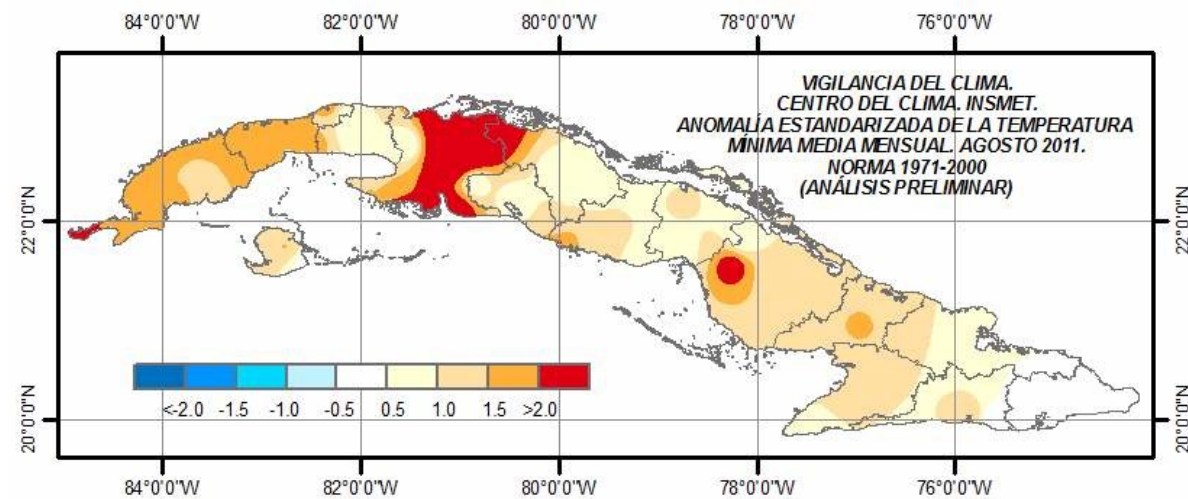
Member	National product	Data type	Interval	Pd of record / base pd	Latency / revised?	Report?	Map?	Table?	Graph?	Lang
Antigua & Barbuda	Temperature	1 Stn	M, A	1971-pr	Varies	Y	N	Y	Y	En
Antigua & Barbuda	Precipitation (Antigua)	Several stns	M, A	1929-pr	Varies	Y	N	Y	Y	En
Belize	Monthly summary	Assessment	M	NA	Unknown	Y	N	N	N	En
Canada	Precipitation	~470 stns, gridded	Season	1948-pr / 1961-90	~15 days / ~3 months	Y	Y	Y	Y	En, Fr
Canada	Temperature	~330 stns, gridded	Season	1948-pr / 1961-90	~15 days / ~3 months	Y	Y	Y	Y	En, Fr
Cuba	Drought / precip	Stn data	Month	1960-pr / 1971-2000	Days / ??	Y	Y	Y	Y	Es
Cuba	Temperature	Stations	M	1960-pr / 1971-2000	Days / ??	Y	Y	Y	Y	Es
Dominican Republic	Precipitation	Stn data?	M	Unknown	Unknown	Y	N	N	N	Es
El Salvador	Precipitation	Stn data?	M	Unknown / 1971-2000	Unknown	Y	Y	N	N	Es
El Salvador	Temperature	Stn data?	M	Unknown / 1971-2000	Unknown	Y	Y	N	N	Es
Jamaica	Precipitation	Stn data	M	Unknown / 1971-2000	Unknown	Y	Y	Y	N	En
Jamaica	Drought	Pct normal (similar to AUS)	M	Unknown / 1971-2000	Unknown	Y	Y	Y	N	En

Various products

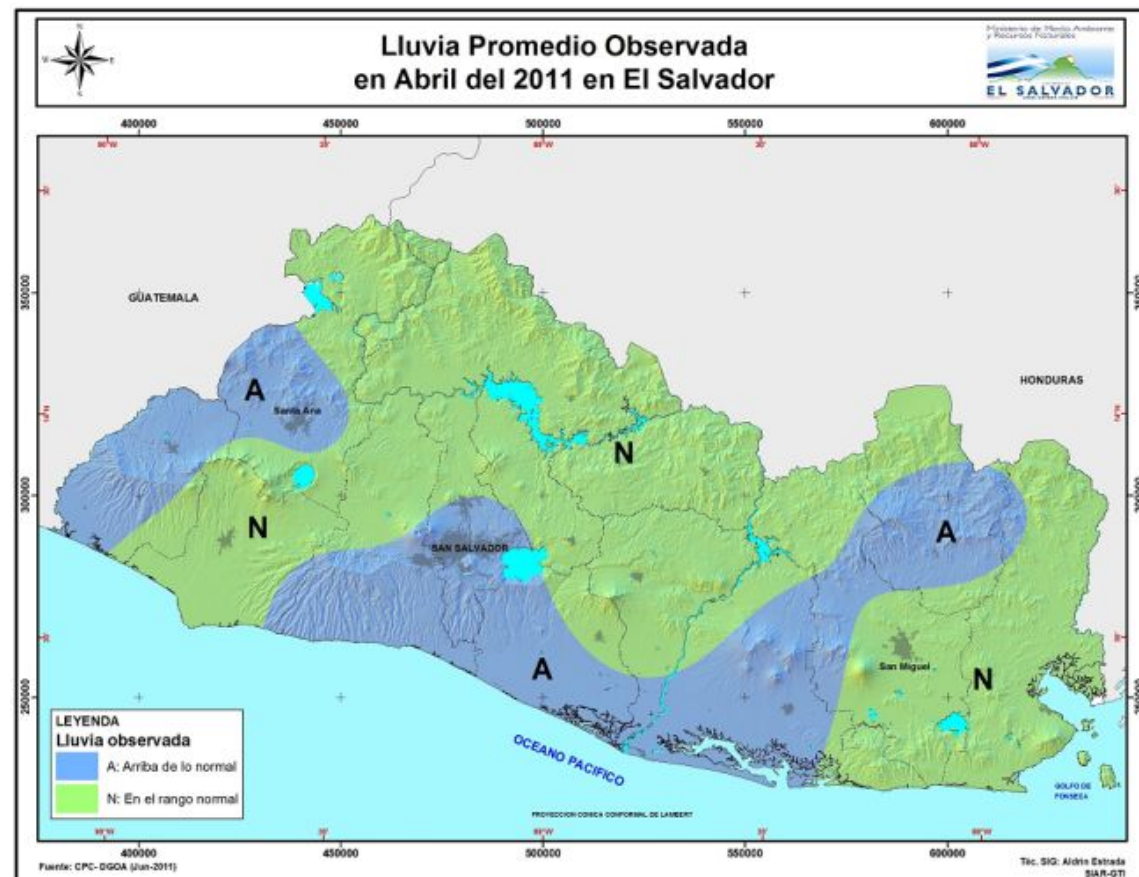
[illegible]

Some mapping examples

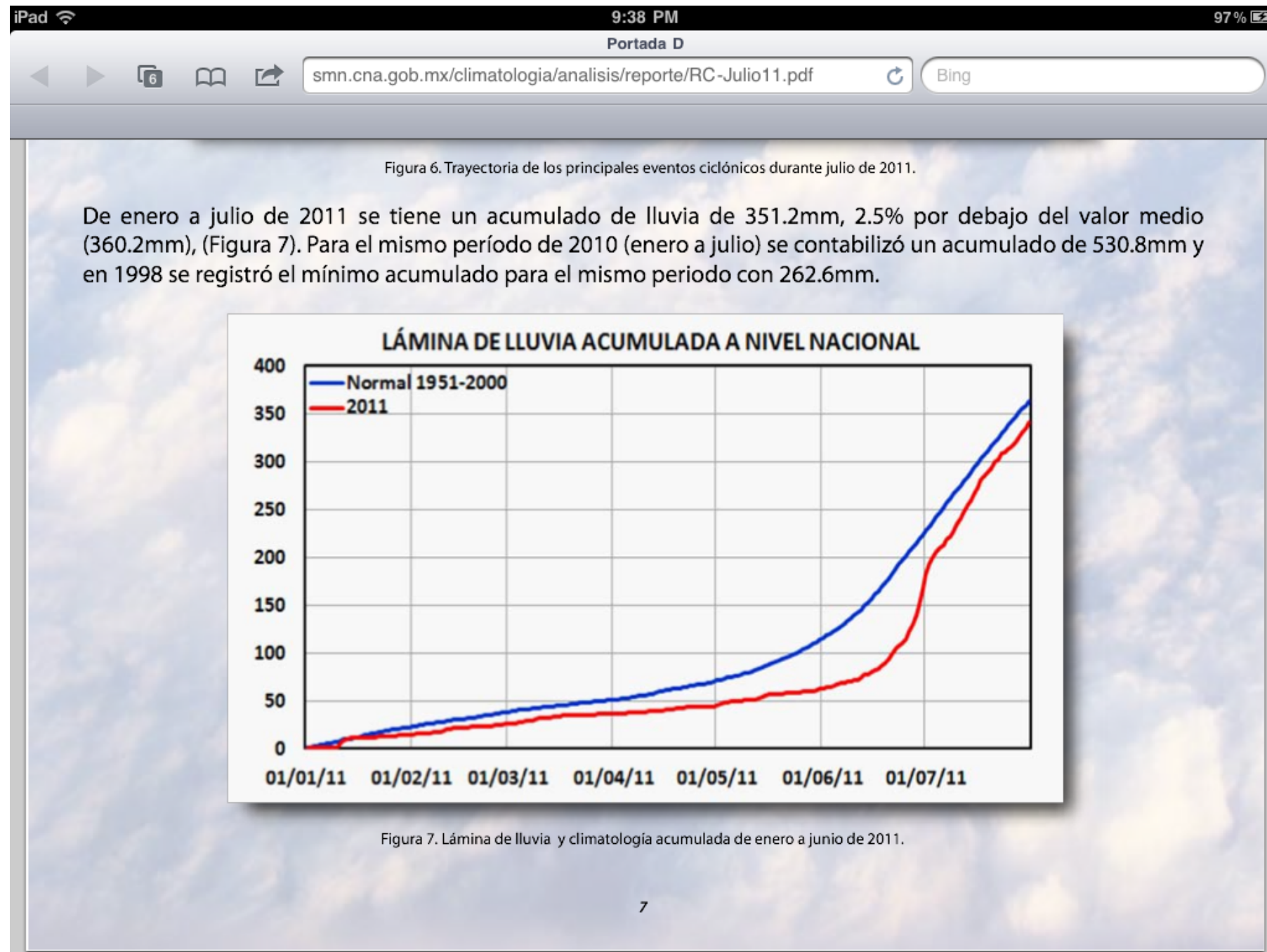
- Minimum temperatures in Cuba, august 2011



Precipitation in El Salvador, April 2011



Graphing precipitation

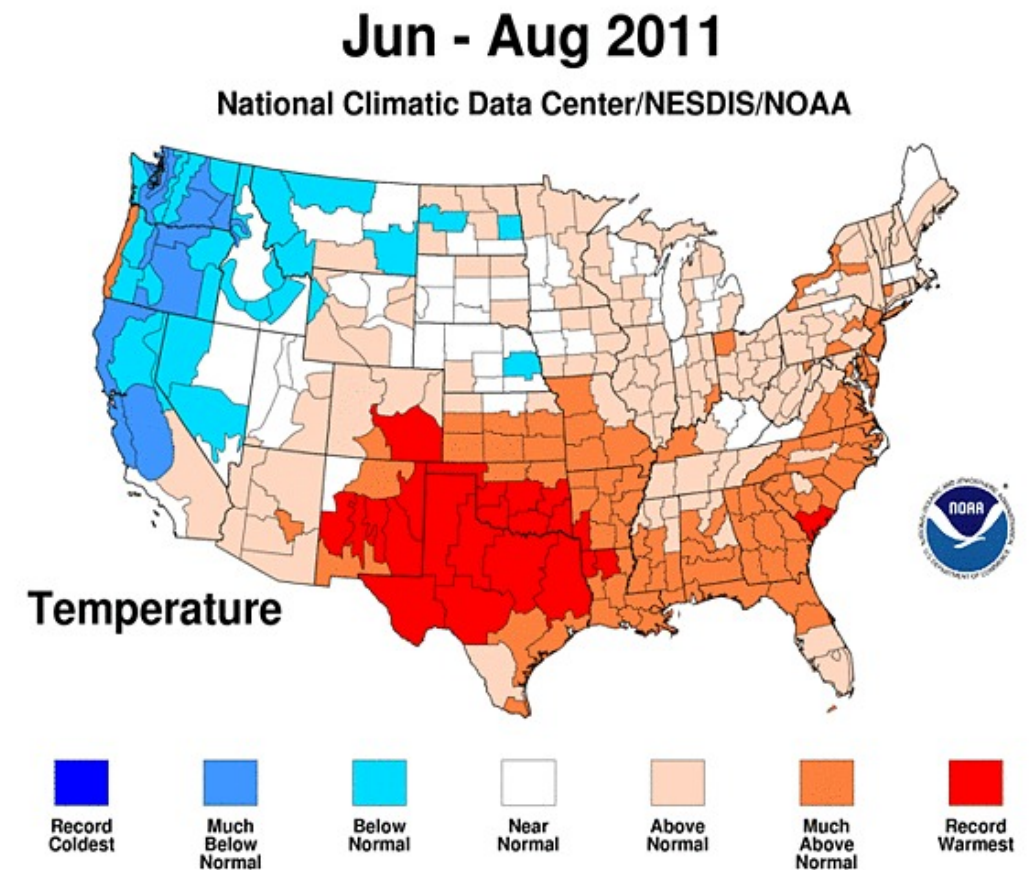


Base periods

- Most countries use 30-year
 - 1971-2000 most common
 - Several refer to 1961-1990
- USA converts to 20th century average

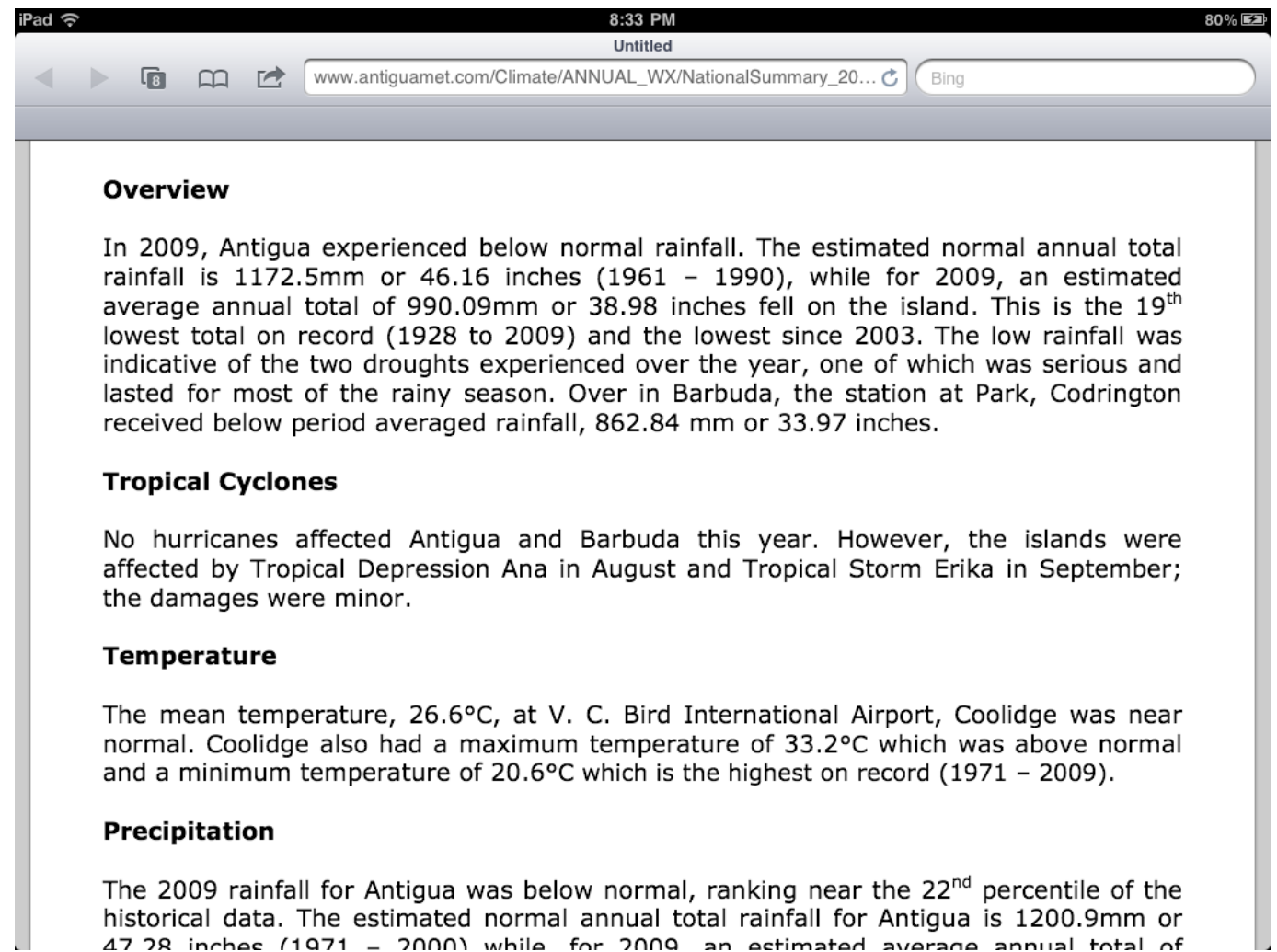
Defining above/below normal

- Antigua & Barbados, USA
- Above / Near / Below = terciles
- "Much" Above / Below = top / bottom 10%



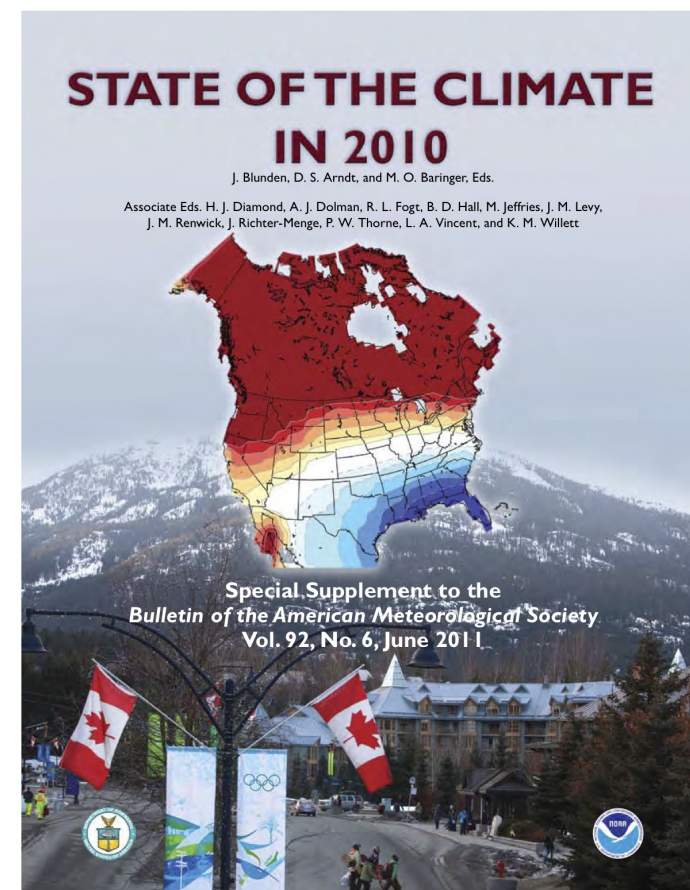
Types of data

- Larger countries tend to use some aggregate of stations
- Smaller, island nations may use a single station as a estimate of national value



Other observations

- There is very little coordinated effort to present superlatives for a period
- Warmest place, greatest rainfall, strongest wind of July 2011



This potentially valuable item was proposed for uniform inclusion in *BAMS State of the Climate*. More information later today



Thank you

From WMO Region IV