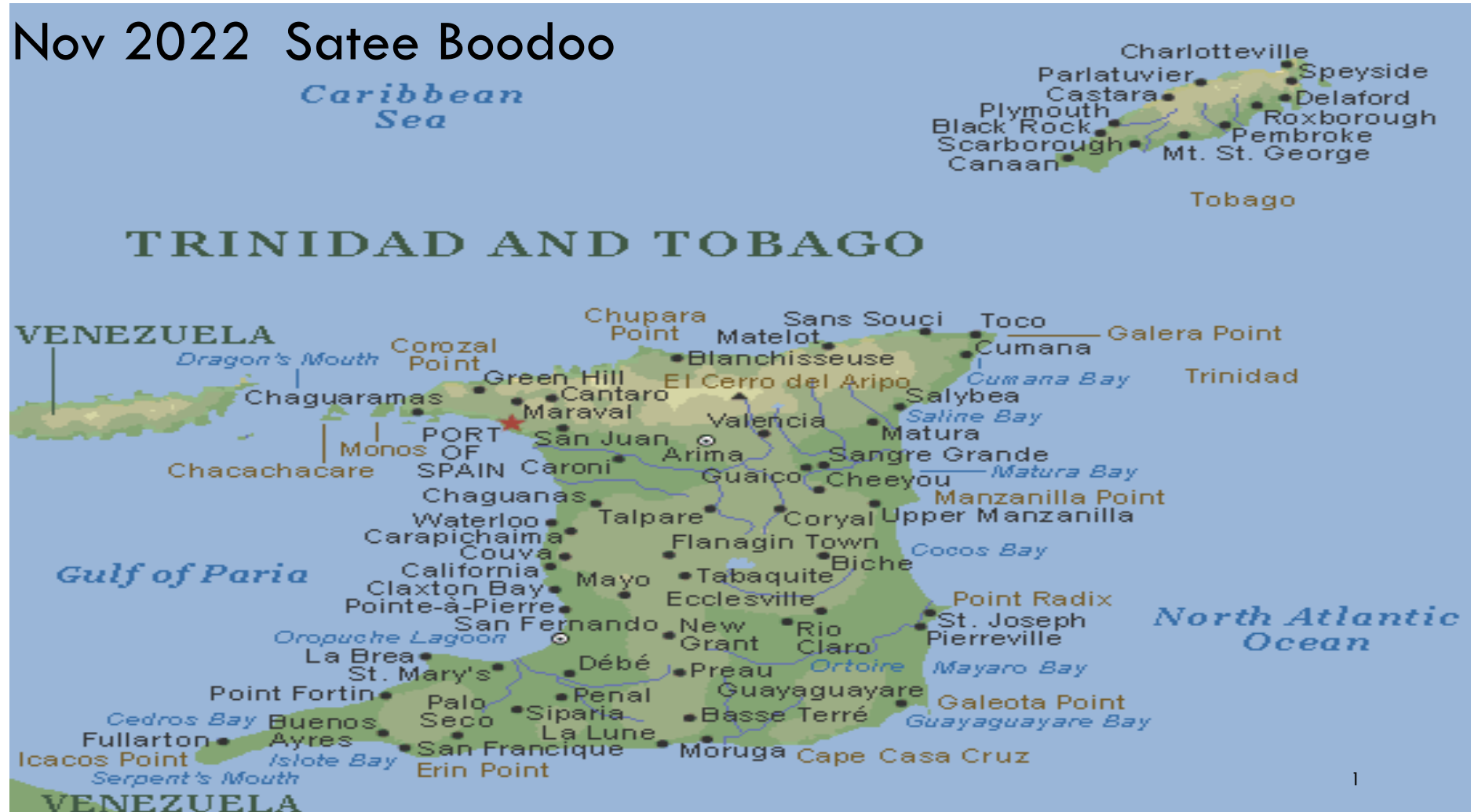


THE ROLE OF AN NSO IN ENHANCING ENVIRONMENT, CLIMATE CHANGE AND DISASTER STATISTICS

CSO Trinidad and Tobago

Nov 2022 Satee Boodoo



ROLE OF AN NSO

MAJOR ROLE

DEVELOPMENT of Environmental, Climate and Disaster Statistics

Collaborate



Data Collection



Dissemination

Solid
Foundation

- Historical
- Current Data Needs

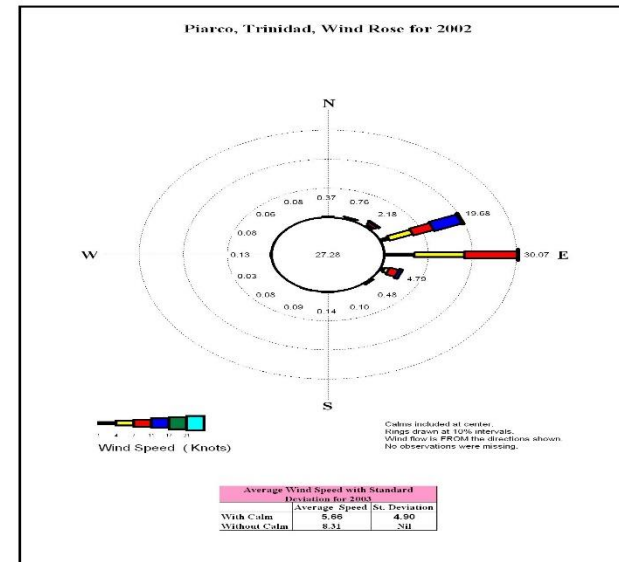
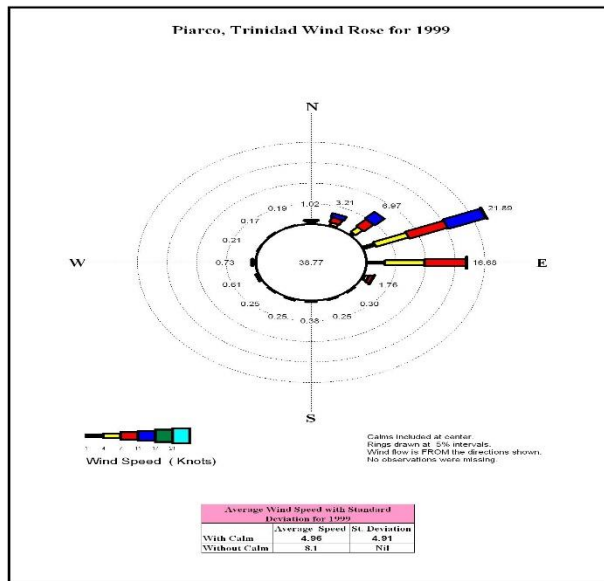
Research

- Forecasts
- Relevant with Data Products

CLIMATE WIND SPEEDS TRINIDAD AND TOBAGO

1999 PIARCO

2002 PIARCO



TEMPERATURE SUNSHINE HUMIDITY

PIARCO

CROWN POINT

Year	Mean Minimum Temperature	Mean Temperature	Mean Maximum Temperature	Mean Sunshine Hours	Mean Relative Humidity	Year	Mean Minimum Temperature	Mean Temperature	Mean Maximum Temperature	Mean Sunshine Hours	Mean Relative Humidity
1999	23.3	26.7	31.7	7.2	82.4	1999	24.5	27.2	30.7	7.8	81.1
2000	23.4	26.9	32.0	7.1	81.8	2000	24.2	26.8	30.4	7.8	81.1
2001	23.5	26.7	31.6	7.9	80.7	2001	24.7		30.9	8.1	
2002	23.7	27.1	32.3	7.5	82.4	2002	24.1		30.7	7.4	80.7
2003	23.7	27.1	32.3	7.8	80.8	2003					

NATURAL HAZARDS META DATA

Tropical cyclone: A non-frontal synoptic scale low-pressure system over tropical or sub-tropical waters with organized convection (i.e. thunderstorm activity) and a definite cyclonic surface wind circulation.

Tropical Disturbance: A discrete tropical weather system of apparently organized convection - generally 200 to 600 km (100 to 300 nmi) in diameter - originating in the tropics or subtropics, having a nonfrontal migratory character, and maintaining its identity for 24 hours or more.

Tropical Depression: A tropical cyclone in which the maximum sustained wind speed (using the U.S. 1 minute average standard) is 33 kt (38 mph, 18 m/s) or less. Depressions have a closed circulation.

Tropical Storm: A tropical cyclone in which the maximum sustained surface wind speed (using the U.S. 1 minute average standard) ranges from 34 kt (39 mph, 19 m/s) to 63 kt (73 mph, 34 m/s).

TROPICAL STORMS AND HURRICANES

Designated No. for the year	Date of Passage		
3	1-2 September 1878	FRANCELLA (6)	20 August 1969
5	12 August 1886	EDITH (6)	5 September 1971
6	16 August 1886	IRENE (10)	13 September 1971
8	1 November 1888	ALMA (4)	14 August 1974
10	12 October 1891	GRETA (8)	10 August 1978
7	6 October 1892	CORA (4)	13 September 1978
1	3 August 1928	DANIELLE (4)	8 September 1986
2	27 June 1933	JOAN (11)	14 October 1988
6	12 August 1933	ARTHUR (1)	25 July 1990
7	16 August 1933	FRAN (6)	14 August 1990
2	9 August 1938	BRET (2)	7 August 1993
2	24 July 1944	JOYCE (10)	1 October 2000
ANNA (1)	20 July 1961		
FLORA (7)	30 September 1963		

TROPICAL STORMS AND HURRICANES Designated No. for the year	Date of Passage
Ivan (9)	6 September 2004
Dennis (5)	6 July 2005
Emily (6)	14 July 2005
Felix (6)	1 September 2007

EARTHQUAKES

Date	Magnitude	Intensity
21 October, 1766	-	7.9
20 September, 1825	VIII	-
24 February, 1918	VIII	-
4 December, 1954	VIII	> 6.5
September, 1968	V - VII	5.1
March, 1982	-	5.4
March, 1983	-	5.8
March, 1988	-	6.2
1 January, 1996	VI	5
2 April, 1997	-	5.6
22 April, 1997	-	5.9
9 July, 1997	-	5.7
4 October, 2000	-	5.8

EARTHQUAKES Date	Magnitude (Richter Scale)
22 March 2005	4.6
24 October 2005	4.9
1 December 2005	4.1
29 September 2006	5.8
29 September 2006	5.1
15 November 2006	4.8
17 November 2006	4.5
23 February 2007	4.7
29 November 2007	7.3

FLOODS

- Data available 1981-2007
- Year and Date
- Mild, Severe, Extensive
- High Winds; Heavy Rainfall
- Areas Affected
- Severity of Damages
- Flashflooding in Communities
- Destruction to property and crops
- Loss of Human Life

Sharing Experiences PRODUCTION



Environmental Student



Technical Language



Ongoing Business = Ongoing
Interest

DATA VERIFICATION



Cross Check Data
National Sources



Cross Check
International Sources



Google Searches

PRODUCTION Bad Experiences



Protect the collection
process



DATA CONTRIBUTORS

Lessons Learnt DISSEMINATION



Data Interpretation
Oil Effluent Samples



Range of Data Users
Societal Value



Volume of Work
Control

REALITY CHECK

MAJOR WORK



OPEN DATA RATING 2022

Environmental
Indicators

Institute of
Marine Affairs

State of Environment
Reports 2013 -
2018

Needs

FULL TIME
consistent work

Stakeholder
Relationships Lost

OPEN DATE WATCH

ENVIRONMENT INDICATORS

1. (18.2) Data on protected lands
2. (19.2) Data on timber harvests or deforestation
3. (19.3) Data on mining or extractive activities
4. (19.4) Water consumption
5. (20.1) Energy consumption
6. (20.2) Energy supply
7. (21.1) Greenhouse gas emissions
8. (21.2) Emissions of air or water pollutants

NSO
Access Key
INVOLVEMENT

EMA

ANNUAL 2022

KAP STUDIES
2016

2022 STATE OF
ENVIRONMENT
REPORT

ODPM

RiX Platform

RIX PLATFORM

UN OFFICE FOR DISASTER REDUCTION

1	Education System	The Education System of Trinidad and Tobago at a Glance : xls format
2	Travel statistics	Trinidad & Tobago Arrivals By Regions 2014 – March 2022.xlsx
3	Travel statistics	Arrivals by Purpose of Visit 2014 – March 2022.xlsx
4	Travel statistics	Arrivals by Main Market 2014 – March 2022.xlsx
5	Macroeconomic and financial data	National accounts
6		Consumer price
7	Additional data	Average yearly visitor expenditure
8	Additional data	Direction of trade statistics

INVOLVEMENT IN ENVIRONMENT AND CLIMATE CHANGE STATISTICS

EPPD

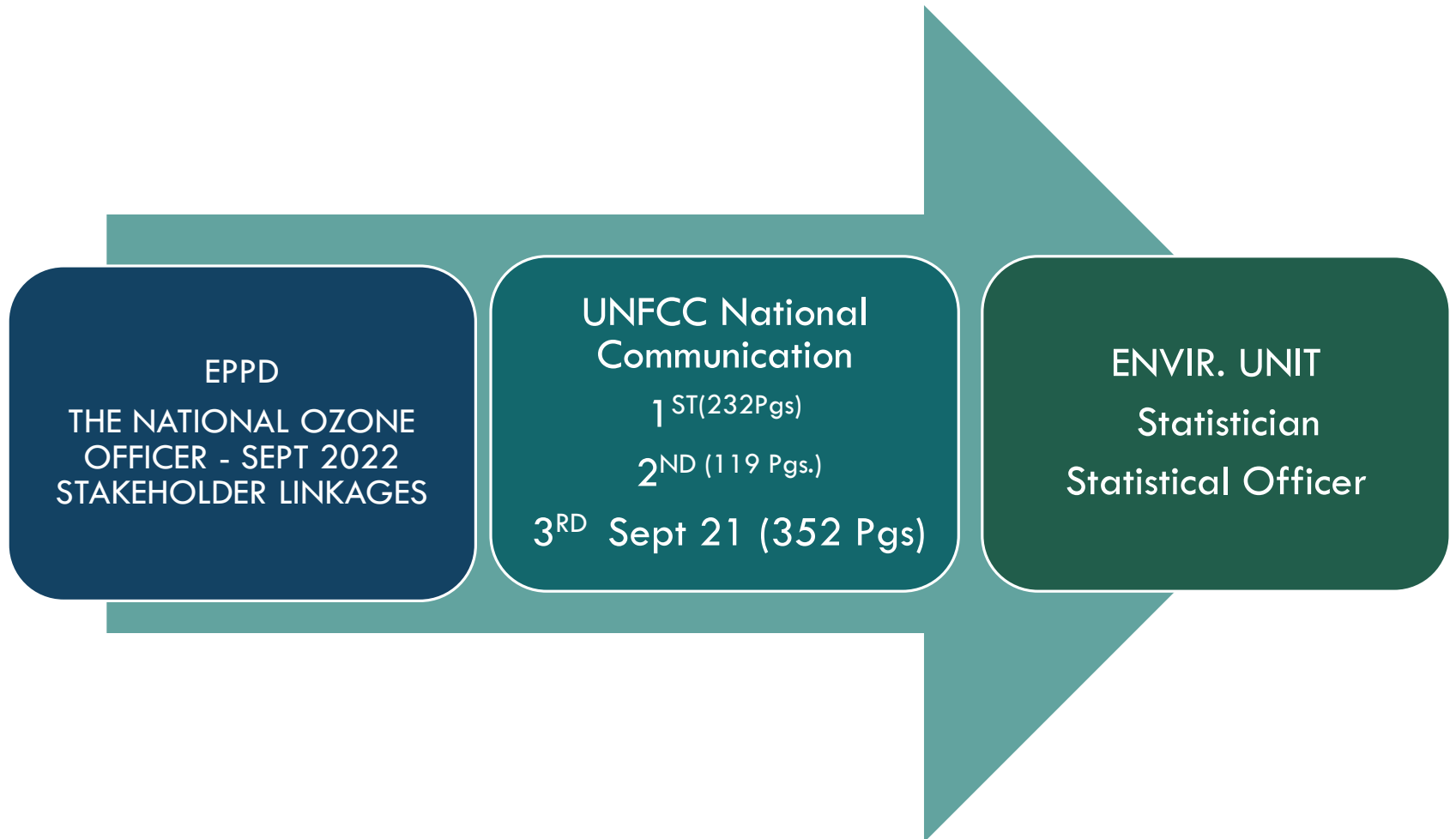
MONTREAL
PROTOCOL COP 34
OCT/NOV 22

COP 15 UN CBD
Biodiversity
Framework

UNFCCC

Inventory of
Greenhouse
Gas Emissions

MOVING FORWARD

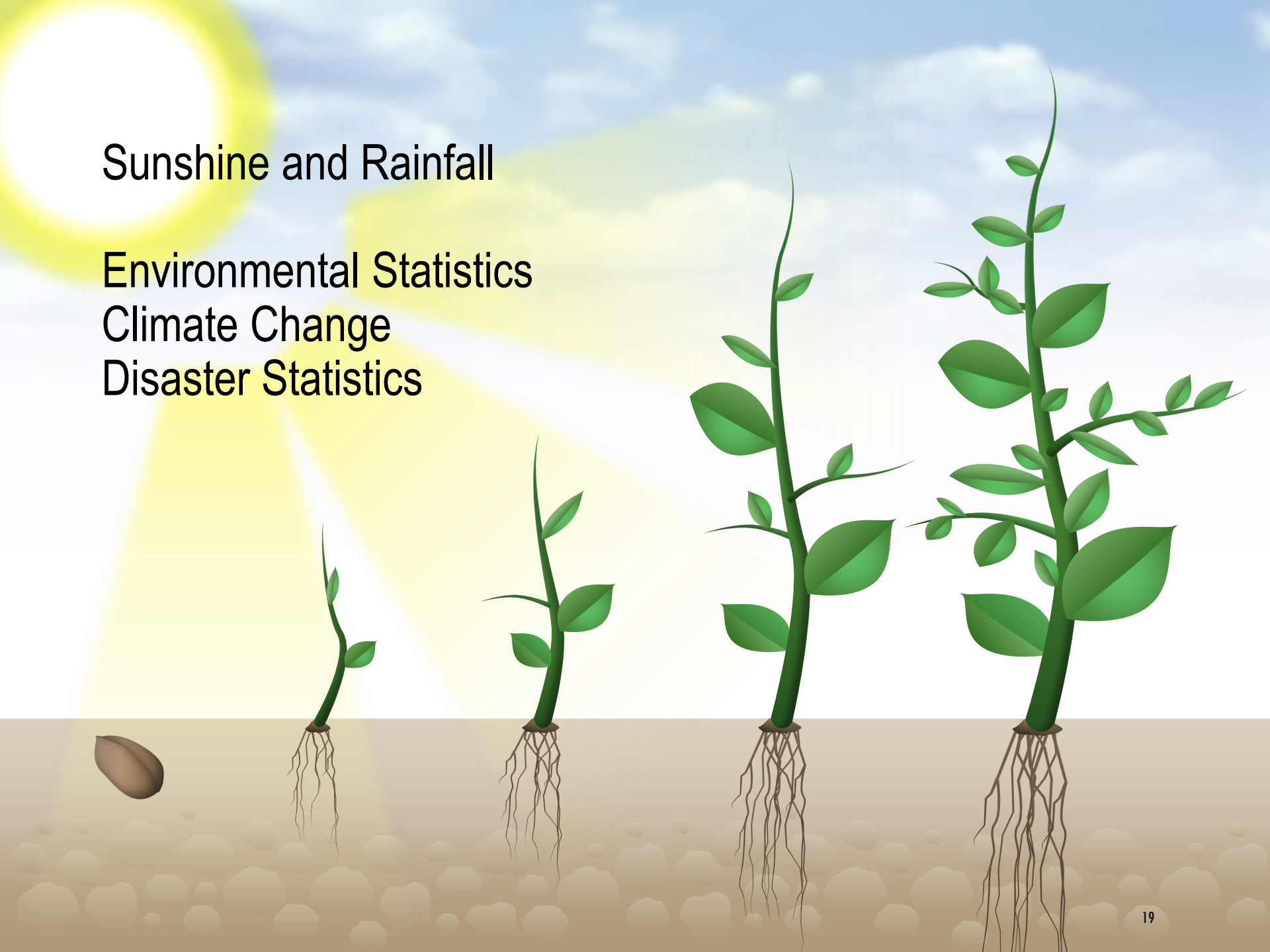


Sunshine and Rainfall

Environmental Statistics

Climate Change

Disaster Statistics





THANKS FOR YOUR ATTENTION