Country Report PHILIPPINES



Drought conditions and management strategies in the Philippines

SILVINO Q. TEJADA, Ph.D./CESO III Executive Director, Bureau of Soils and Water Management

VICENTE B. TUDDAO, JR., Ph.D. Director, Environment and Natural Resources Governance and Enforcement, Field Operations Office, DENR

> Ms. EDNA JUANILLO OIC, Climatology and Agro-met Division, PAGASA

ENGR. ERNESTO B. BRAMPIO Chief, Water Use Management Section, BSWM



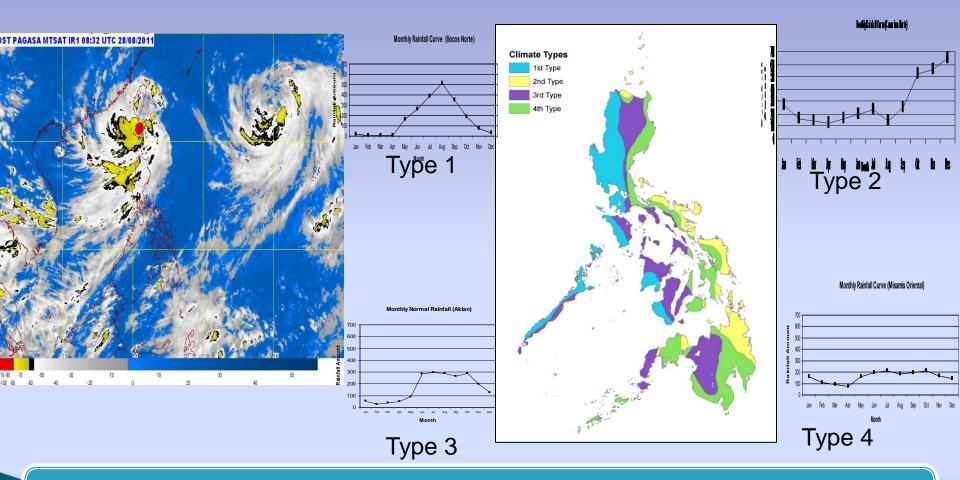
Initiative on "Capacity Development to support National Drought Management Policy"

May 5-9, 2014

Hanoi, Vietnam



The geographical and physical characteristics of the Philippines makes it prone to hydro meteorological and climate hazards;



Weather related hazards: tropical cyclones, cold front, ITCZ, Monsoons, Extreme weather events (El Nino or La Nina) Drought in the Philippines.....

Influence of El Niño Phenomenon

- extended dry season
- early end of rainy season
- weak monsoon activity
- less number of tropical cyclones
- above normal sea level pressure

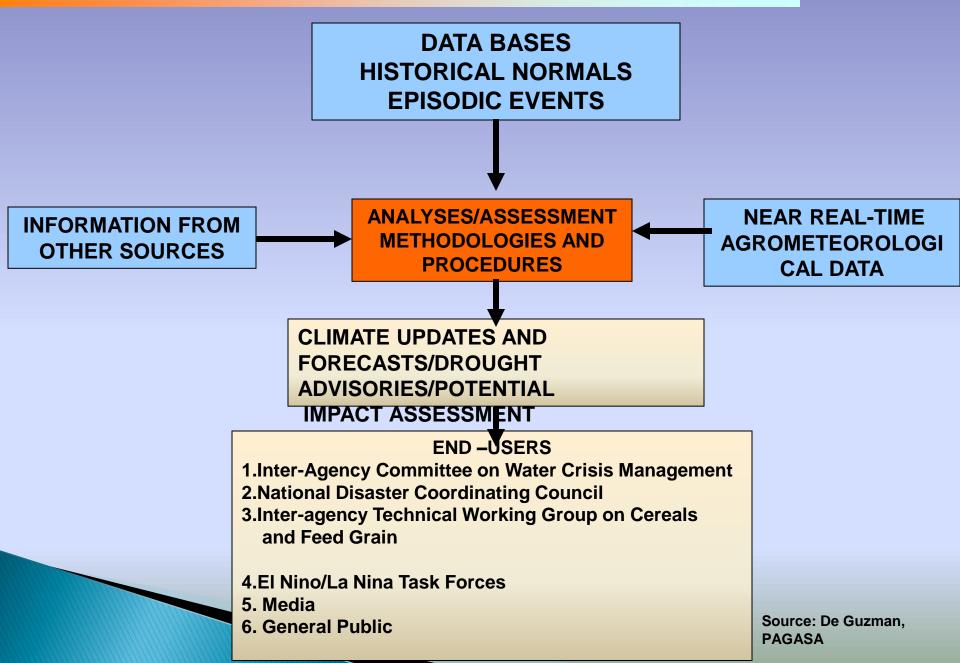
Future scenario: PAGASA

- 2020-2050 all areas will get warmer;
- •Mean temp. in all areas increase 0.9° to 1.1° C (2020)
- Mean temp. 1.8° to 2.2° C (2050)
- •Decreasing trend in rainfall in Mindanao by 2050

above normal air temperature

Resulting to drier weather condition

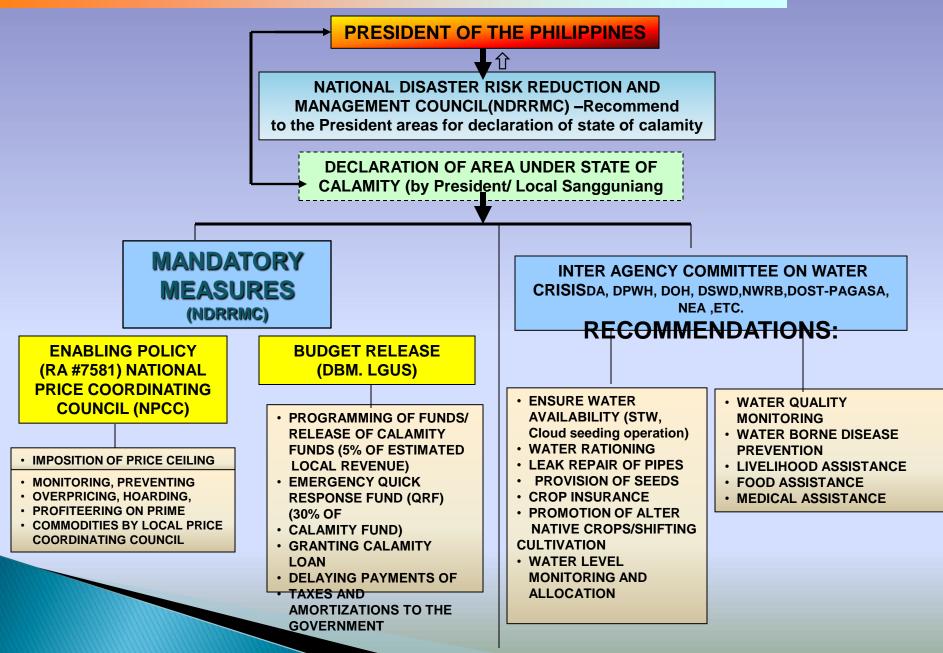
Drought monitoring and early warning systems



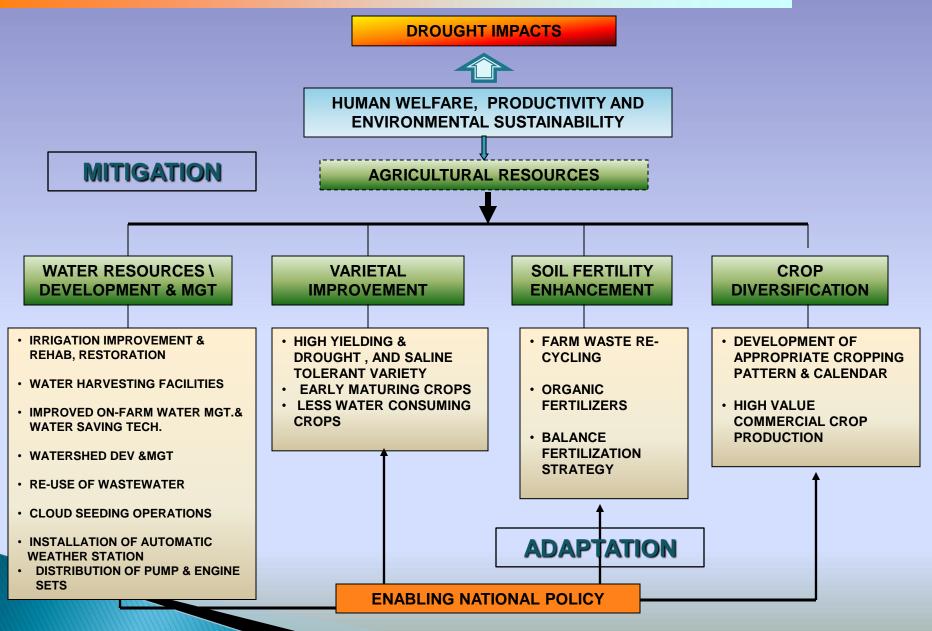
Vulnerability assessment:

- 1. Agriculture and Fisheries:
- Ave. Annual Damage (1990-2006)=Php 12.431 bn,
 Php 2.23bn (17.9%) due to drought
- Fisheries damage=Php 7.2bn
- 2. Domestic water supply and power sector:
- 1991-92 (20% shortfall in Manila water supply);
 Hydropower generation loss=Php348 m.
- 3. Environment and Natural Resources:
- Decrease in coral cover=46% to 80%
- Decrease in forest cover=70% of total forest cover
 (1990) to 6% of the total forest cover (2010)

Emergency relief and drought response:



Practices to alleviate drought impacts:



Need for knowledge and skills on drought management

- Understanding influences of climate variability(drought) in agriculture, watershed mgmt., biodiversity conservation
- Analytical tools to describe weather extremes and climate variability (drought forecasting models, decision support systems, etc.)
- Development of appropriate monitoring and early warning systems for drought.
- Application of early warning and forecasting in decision making
- Awareness on climate and weather extremes
- Development of policy measures to new technologies to adapt to drought.

Capacity building (human and infrastructures)

End of presentation Thank you...



Save water...

....Save our future

... Save our planet