



CLIMATE FIELD SCHOOL

The First in the Philippines
Second in Asia

*(The Climate Information
Application Program Experience)*

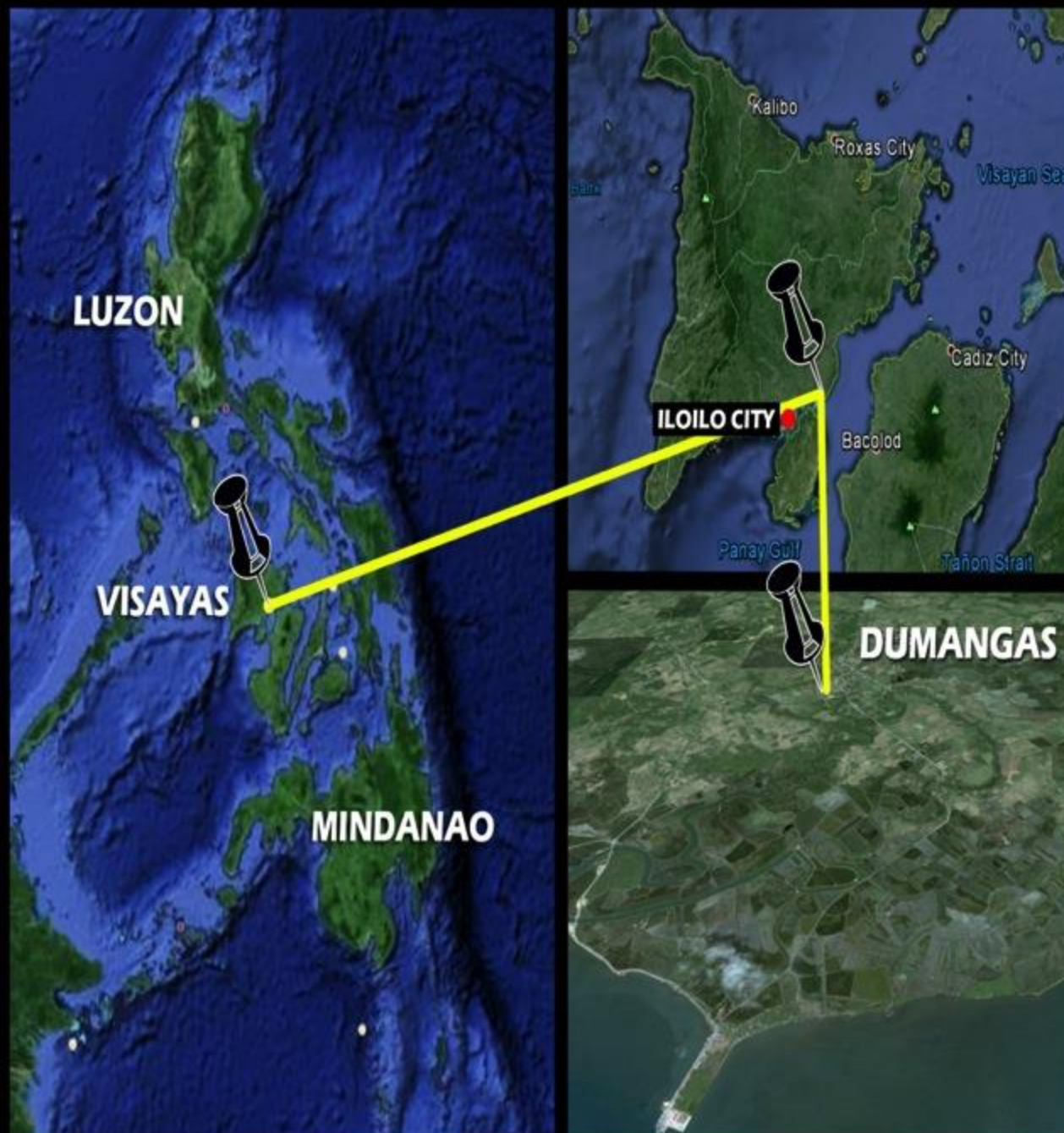
Presenter:

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Dumangas Agromet Station



GEOGRAPHICAL LOCATION OF DUMANGAS



Land Area: 12,870 ha

Population: 68, 899 as of 2010

No. of Households: 14,359

Agricultural area: 6,820 ha

Irrigated: 5,460 ha

Non-Irrigated: 1,360 ha

Fishpond Area: 4,535 ha

No. of Villages (Barangays): 45

Dumangas is regularly exposed to 2 extreme conditions:

Flood



Drought



- ◆ Philippines is along the path of typhoons
- ◆ Dumangas is located at the tail-end of the a major river basin in Iloilo Province
 - the municipality is a natural catch-basin during the rainy reason
 - water is scarce during the dry season

Why is Dumangas prone to drought?

It is located at the tail end of the *Jalaur-Suage Rivers Irrigation System* with a dilapidated 1954 model run-off-the-river dam which resulted to *insufficient* water supply during dry season.



Damages brought by drought:

1. Damages on agriculture
2. Damages on fishpond operations
3. Damages on other livelihoods

Impacts of Typhoons and Floods:

Damages to crops, fishponds, poultry, livestock and other properties

Damages to infrastructures

Loss of lives

Health risks

Disruption in the education sector

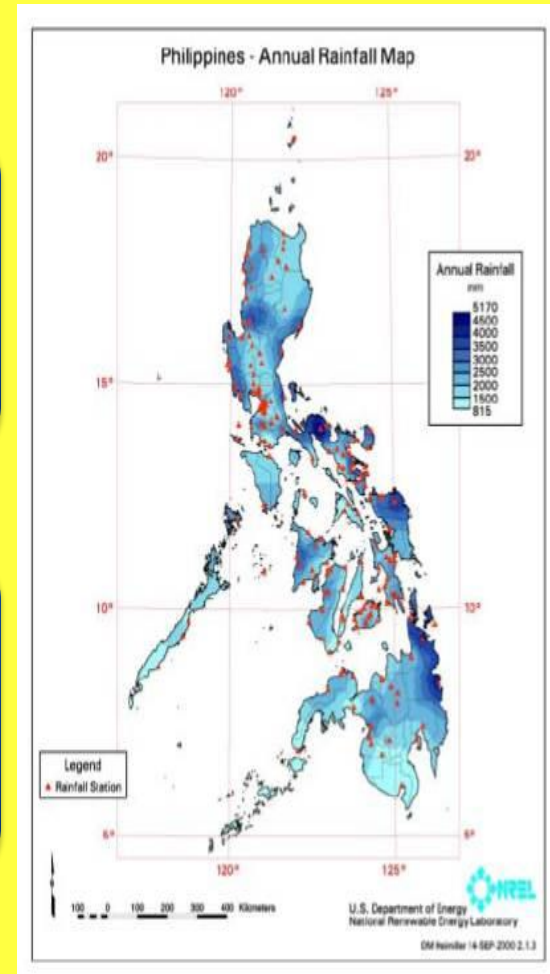
Disturbance in peace and order



Climate and Agriculture

Climate plays a key nurturing role in agriculture

Climate-related hazards are also a constant threat to rice production in the municipality, jeopardizing food security



Climate and Agriculture

From sowing to harvesting, rice is at the mercy of the weather, especially during the critical periods in their growth and development.

Delay in rainfall onset, untimely or excessive rains, drought , etc. would seriously affect the development and the yield of the crops

Weather also affects scheduling of agricultural operations, delay in plowing and harrowing affects farmer's productivity due to late planting.

Climate and weather contributes to fluctuations in crop yields, variety, nutrients , cultural operations and other factors as well.



Challenges to Agriculture:



Agriculture is highly vulnerable to climate variability, extremes and changes

Climate directly affects agriculture productivity, cropping patterns, and

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_2559

