



# Bridging the Gap of Users' knowledge on climate through Climate Field School: *Indonesian Experience*

Nurhayati , Nelly Florida, Marjuki.

Center for Climate Agroclimate and Marine Climate  
Indonesia Agency for Meteorology Climatology and Geophysics (BMKG)

*Presented in: NOAA's Annual CPASW Workshop,  
Burlington, 22-24 March 2016.*

# INDONESIA: The Facts

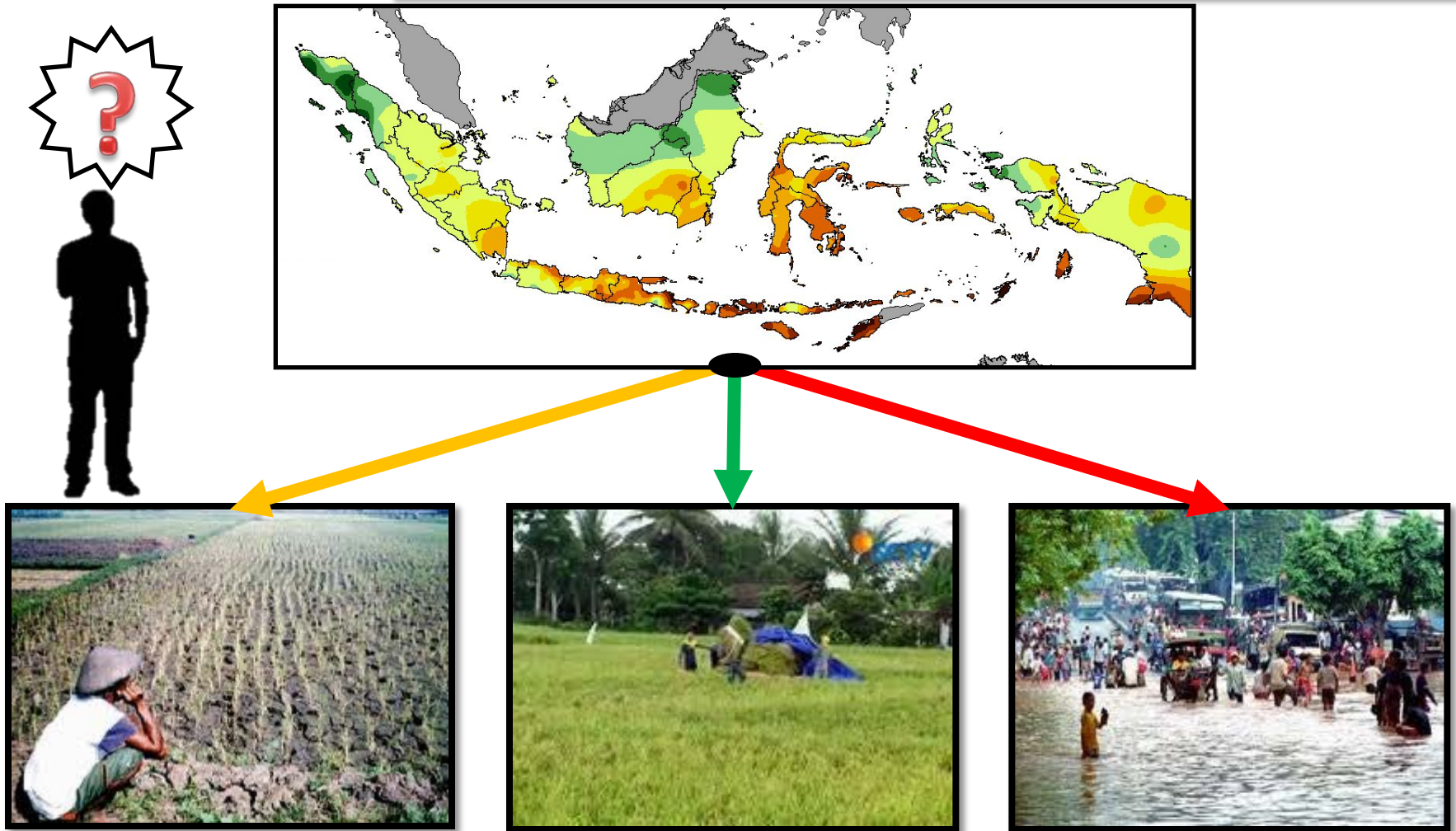


- Archipelagic country ~ 17,504 islands (10,000 small islands), right at the equatorial line;
  - Has > 250 million population mostly are farmers and fishermen.
  - Flanked by 2 ocean (India and Pacific) and 2 continents (Australia and Asia); --
- Exposed by 3 major rain patterns, 3 monsoon drivers, 342 climatic zones ---→ climate-sensitive sectors including agriculture

The background of the slide is a photograph of farmers in a field. In the foreground, a person in a white long-sleeved shirt and dark pants is shown from the side, reaching up to thresh rice. To their right, another person in a brown patterned shirt is also threshing. A large cloud of rice chaff is being tossed into the air, creating a dynamic scene. In the background, another person in a green hat and patterned shirt is visible, also working in the field. The sky is a clear, bright blue.

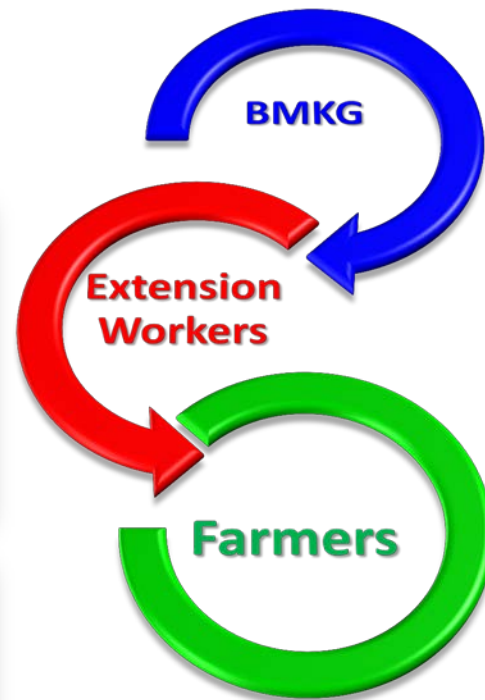
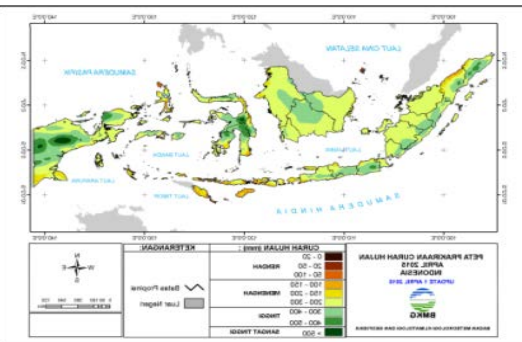
**Problem:**  
***Farmers have lack of  
understanding on climate  
information***

# Climate Field School: Translating Technical terms to practical language





# Climate Field School (CFS)



Partnership between provider (NMHS), user interface (Extension Workers) and the end users (Farmers) on understanding climate information

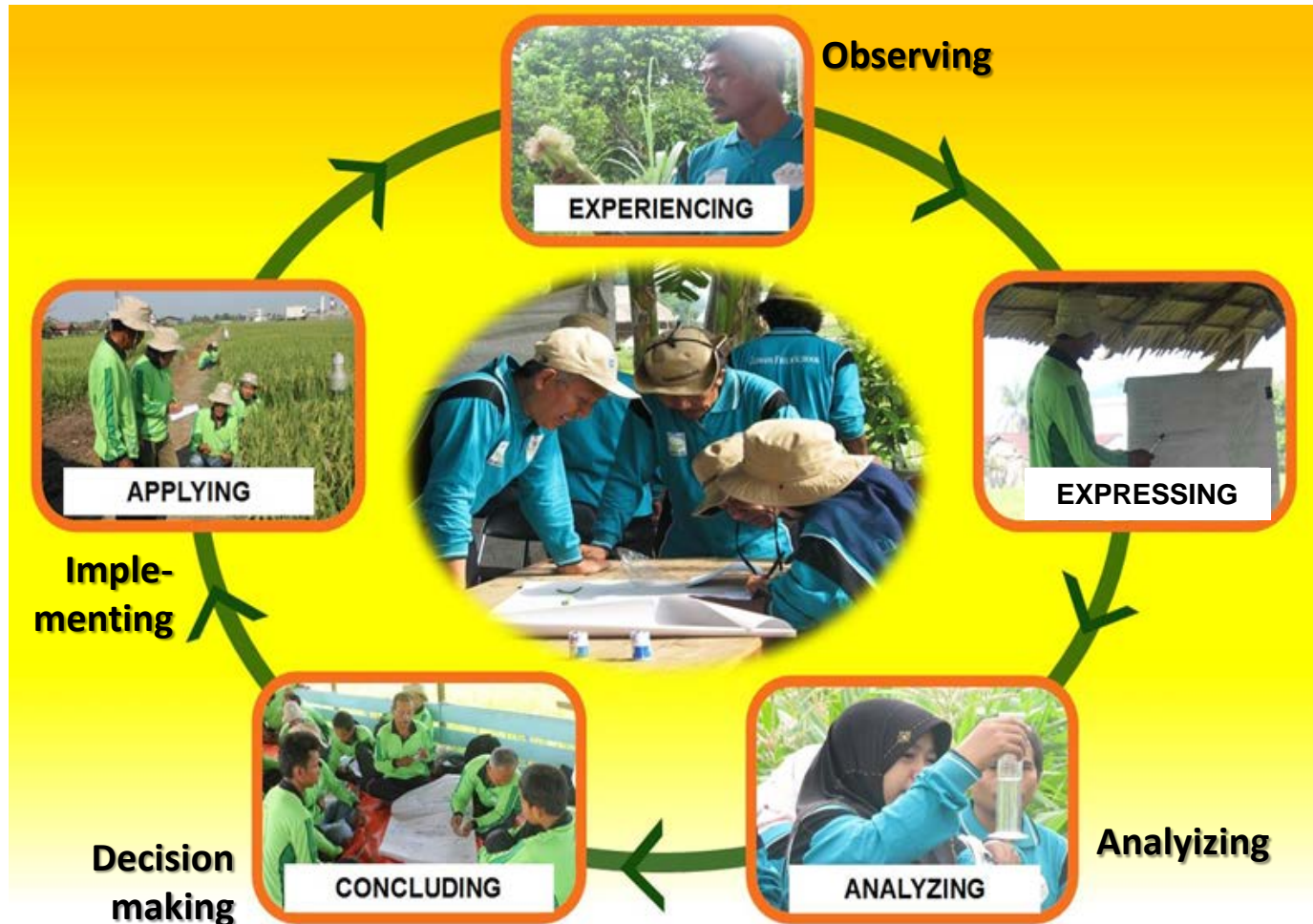
# ***Climate Field School (CFS)***

Adapting to **local climatic change and variability**



**increasing climate literacy**

**LEARNING BY DOING**



**INCREASING CLIMATE LITERACY**

# CFS – TRAINING OF TRAINERS



# OBSERVING MET PARAMETERS



# OBSERVING AGROECOSYSTEM



# FIELD STUDY AT CLIMATE STATION



# HARVESTING (2014 - 2015)



# CALCULATING THE PRODUCTS





# CFS ACHIEVEMENTS

NO.	PROVINCE	COMODITY	HARVEST TIME	TOTAL YIELD [TON/HA]	
				AVERAGE	CFS
1	Tangerang, BANTEN	Maize	3 Oct'14	32–33	39.76
2	Buleleng, BALI	Maize	16 Jul'14	3–4	6.48
3	Mempawah, West Kalimantan	Paddy	28 Ags'14	6–7	10
4	Lombok, West Nusa Tenggara	Paddy	19 Jun'14	5.6–5.9	8.46
5	Minahasa, North Sulawesi	Maize	1 Sep'14	3	3.45
6	Cirebon, JABAR	Paddy	11 Jul'15	5.4	7.5
7	Serang Barat, BANTEN	Paddy	7 Sep'15	7.2	7.9

# ***TOT COURSE ON CFS FOR ASIA PACIFIC***

The ***purpose*** of the “Learning by Doing” session was to share the experience of Indonesia in implementing the Climate Field School program with other countries in the Asia Pacific region in order to support food security programs in their countries.



“Training of Trainers of Climate Field School for Asia Pacific” was held on 26 - 29 August 2014. It was attended by 18 participants from 6 countries.

“Training of Trainers Course on Climate Field School for Asia Pacific” was held on 25 – 28 August 2015. It was attended by 17 participants from 7 countries.



# ***Training of Trainers for Climate Field School Asia Pacific***



World Meteorological Organization

September 3

Big thanks to the Indonesian Agency for Meteorology, Climatology and Geophysics (BMKG) for hosting a Training of Trainers of Climate Field Schools for Asia Pacific countries. It focused on techniques on how to convey complex climatic information in an easy to understand language for farmers and extension workers. This will help farmers to make informed decisions about planting etc and so contribute to better food security

<https://goo.gl/6em1Gx> — with Vivie D. Ariefianty and 8 others.



World Meteorological Organization

September 11 at 8:09pm

Despite the El Niño-induced drought, farmers in Indonesia have harvested impressive yields of rice as a result of award-winning Climate Field Schools organized by the Indonesian Agency for Meteorology, Climatology and Geophysics (BMKG). The knowledge gained during the Climate Field Schools is now being shared with other countries in Asia Pacific as part of a drive supported by the WMO to use tailored climate information to boost food security in a region which has been hit by drought, floods and devastating tropical cyclones this year. Read more: <https://goo.gl/IXKW4I>



# **CFS- *Way Forward***

- While in one side NMHS Indonesia (BMKG) needs to improve its climate tailored products, the –learning by doing– scheme of CFS will be continued and expanded for fishermen and salt farmers.
- In supporting WMO mandatory of providing climate impact-based information and risk-based warning, BMKG will start the climate services provision for water, health and DRR.



**THANK YOU**

***Terima Kasih***

