

LOCAL TECHNOLOGIES FOR DEVELOPING CLIMATE RESILIENCE FARMING IN COASTAL AREAS

PRESENTED BY :
KUSTIWA ADINATA
ONLOCARNET ANUAL MEETING
BANDUNG OCTOBER 25-26, 2016

MAIN HAZARD IN PANGADARAN AND CILACAP

Extreme rain (the change of rain pattern, flood, increasing diseases and pest, top soil erosion, increasing soil acidity).

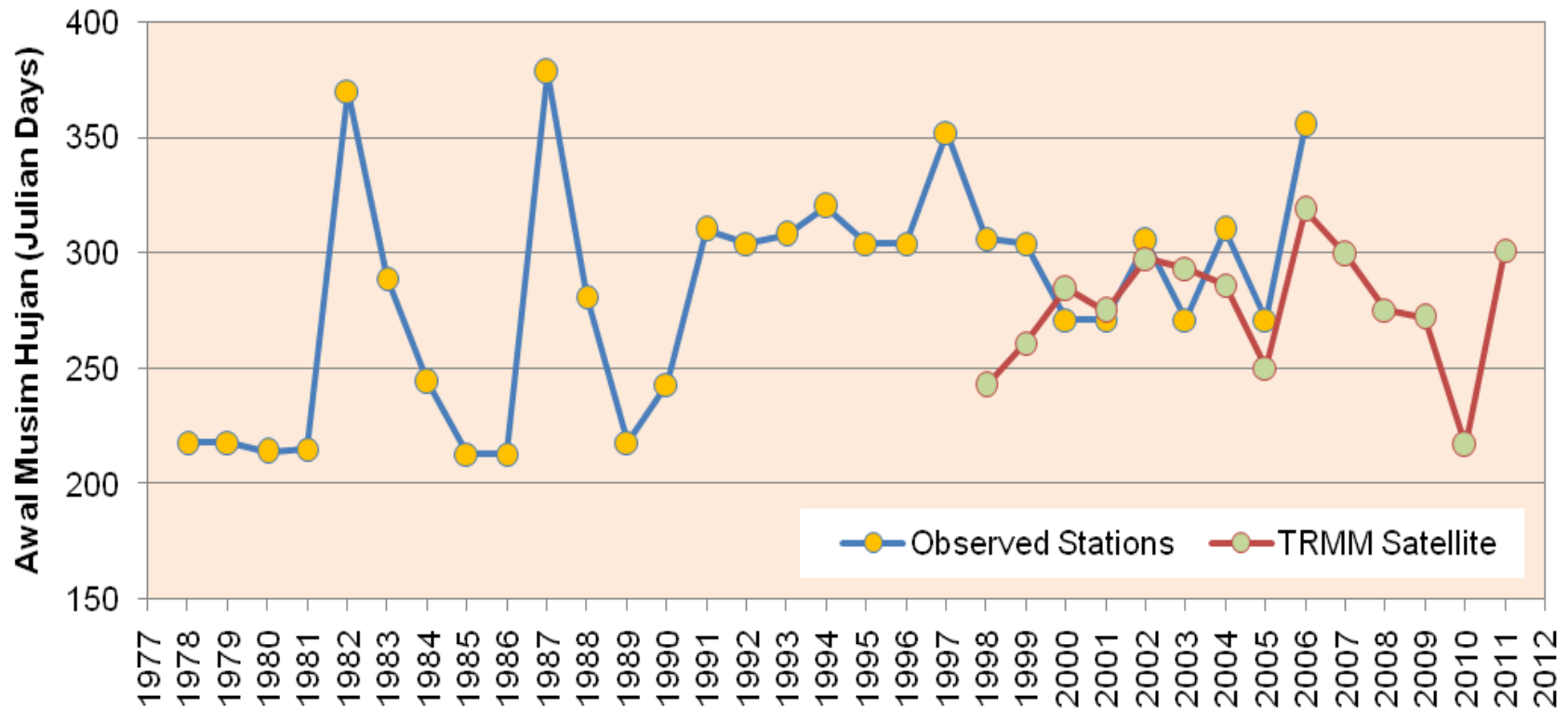
Increasing temperature related with dry (dry field, pest increasing, water conflict, the harden field and the dead of roots, fields become difficult to be managed, infertile and nutrient decrease).

The increasing of sea water level (salty water flood in ricefields, shore abration, decreasing productive fields).

Strong Wind caused damage on plantation, pest spreading and faster diseases.

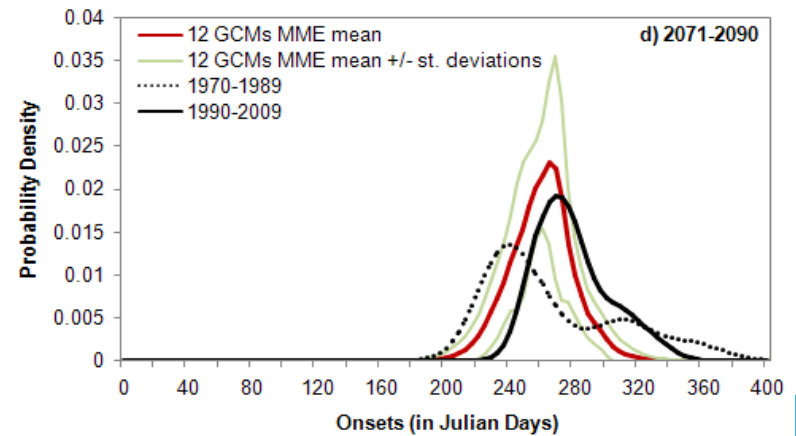
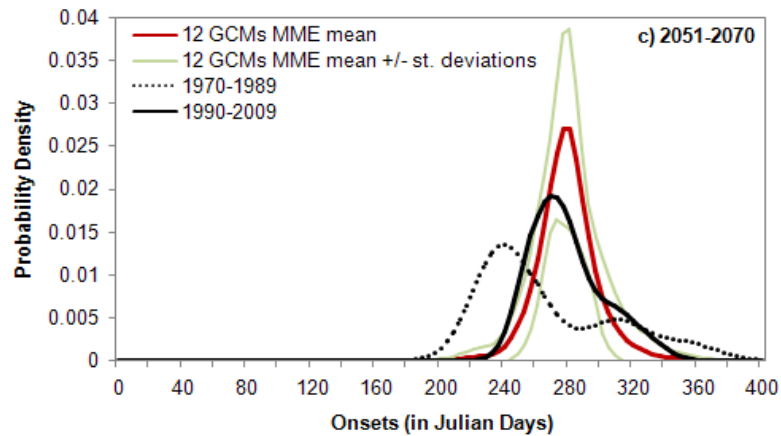
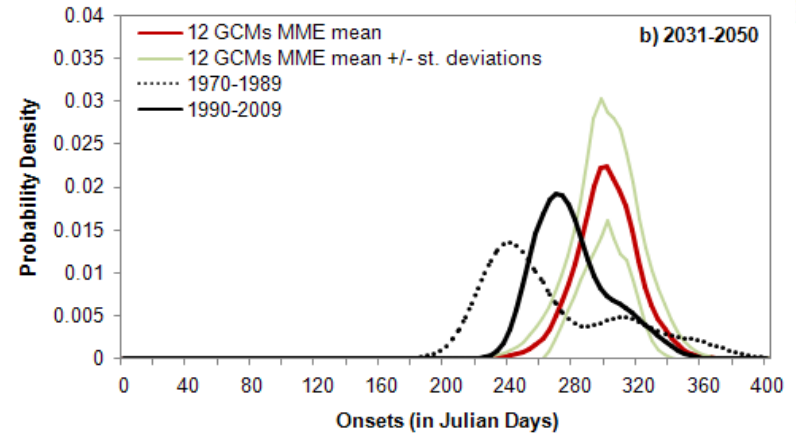
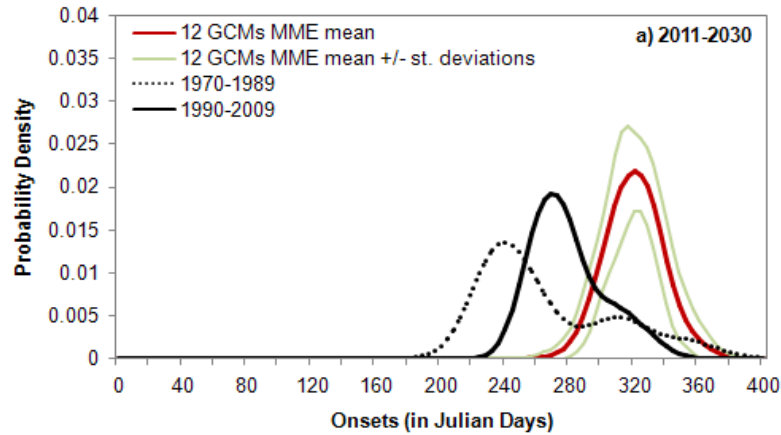
Map of District
Pangandaran West Java and
Cilacap Central Java



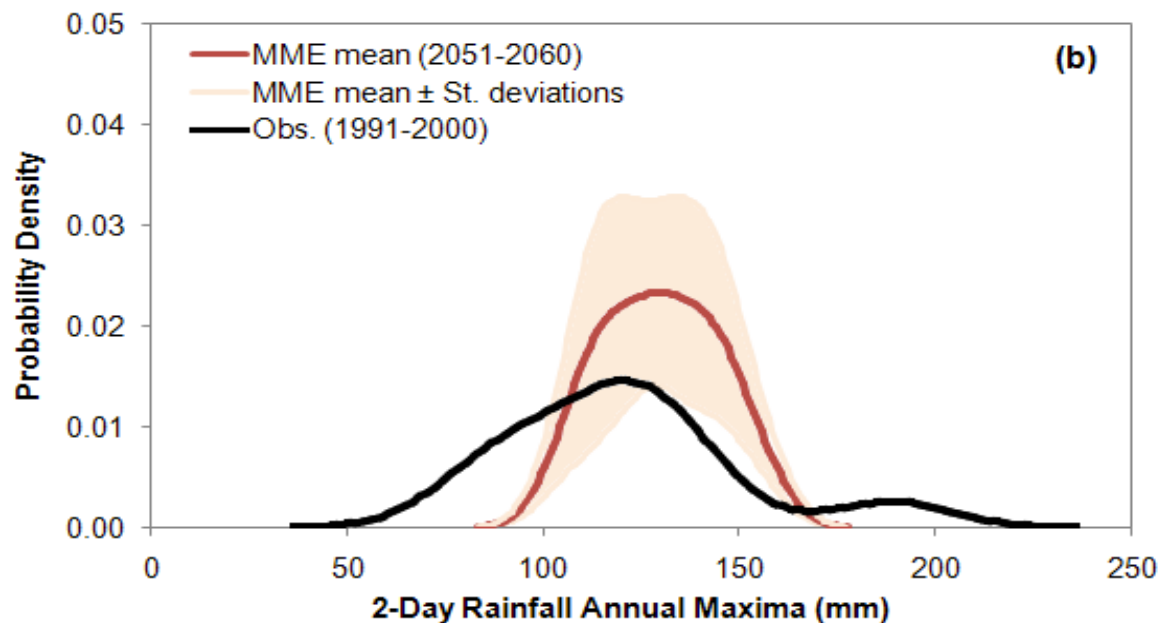
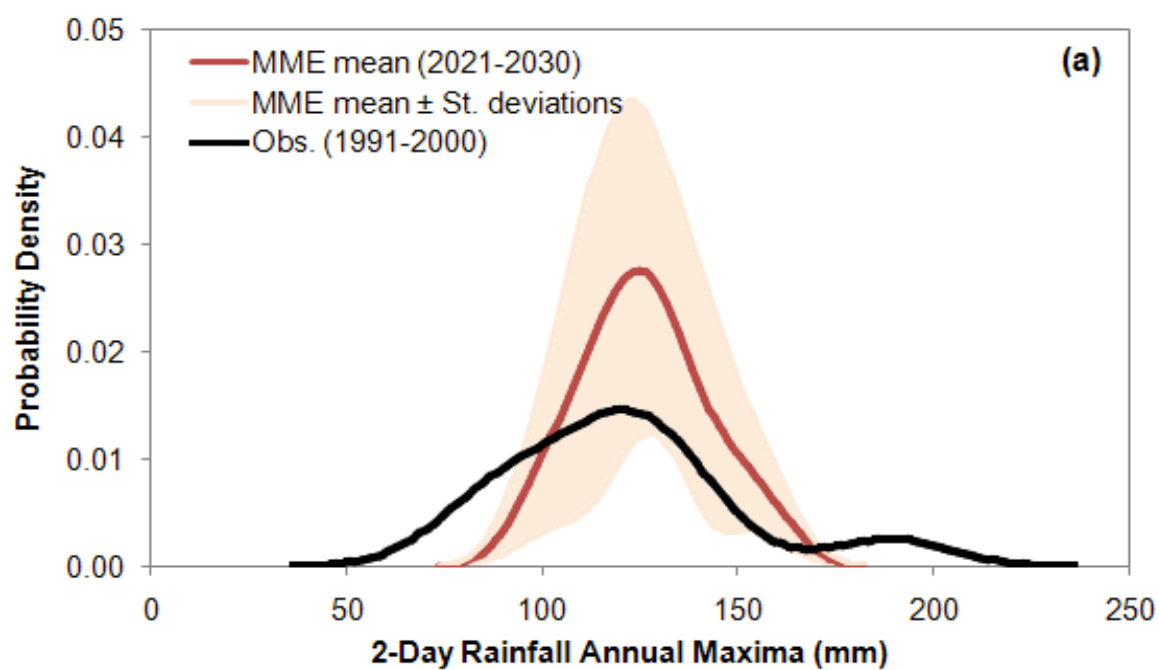


The average initial area in the rainy season
 Ciamis-Cilacap district (In Julian Day) CCROM 2013

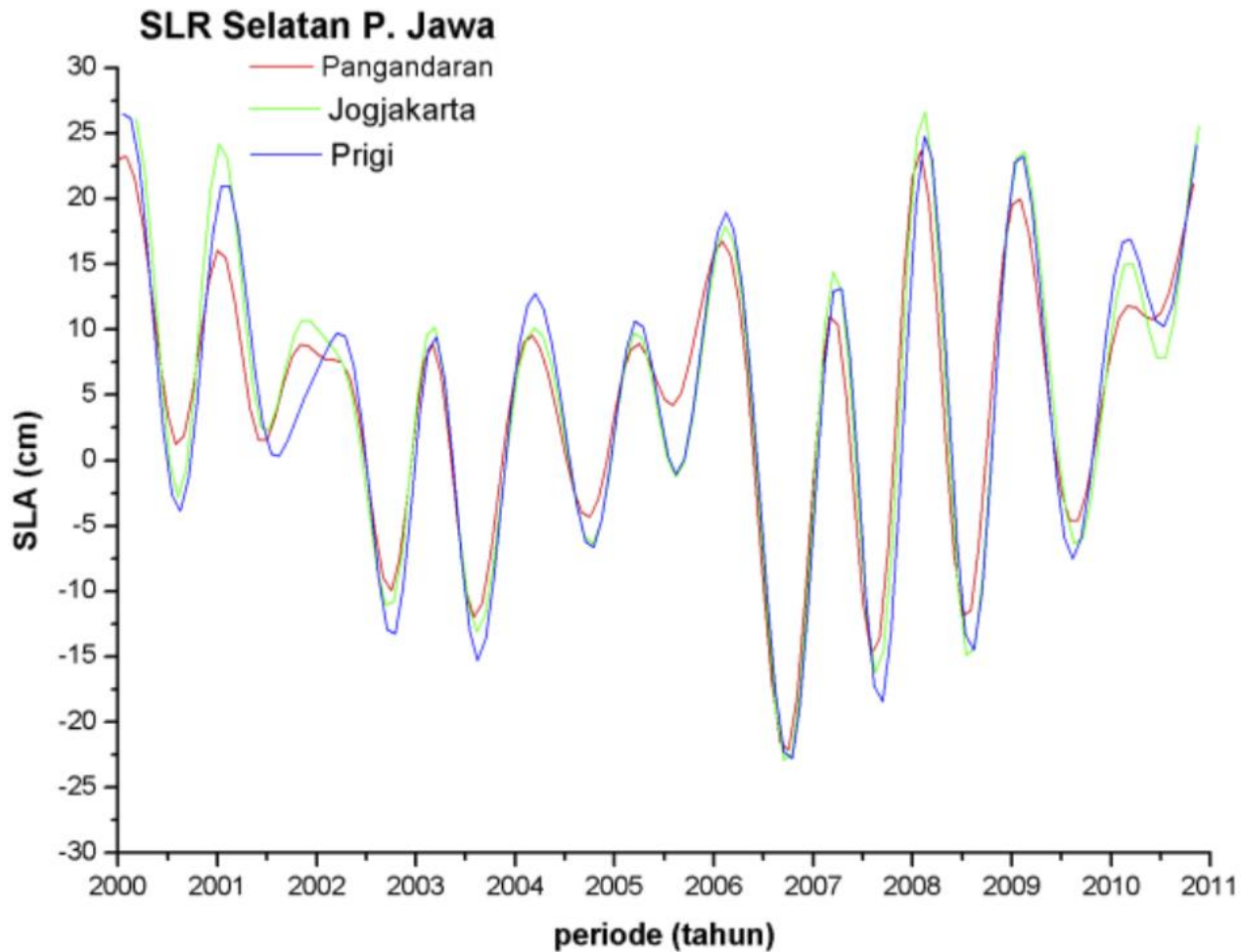
Projected Onsets (SRES A1B)



Projected changes in initial inclination of the rainy season (CCROM 2013)

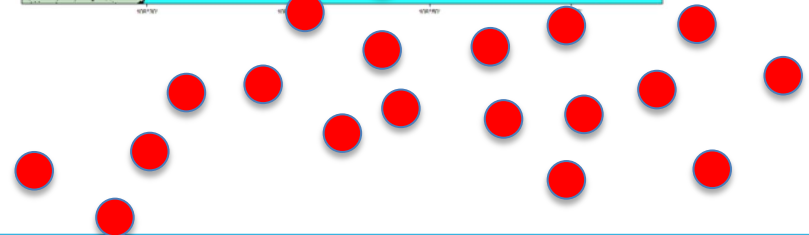
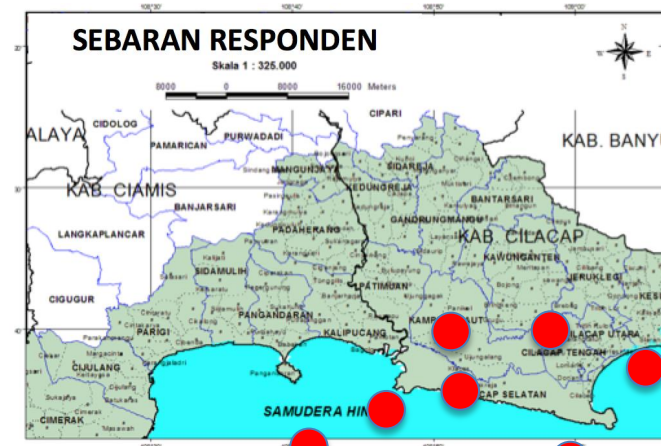


Yearly Proyeksi on of extrim rain maximum for
2-daily rainfal (CCROM 2013)

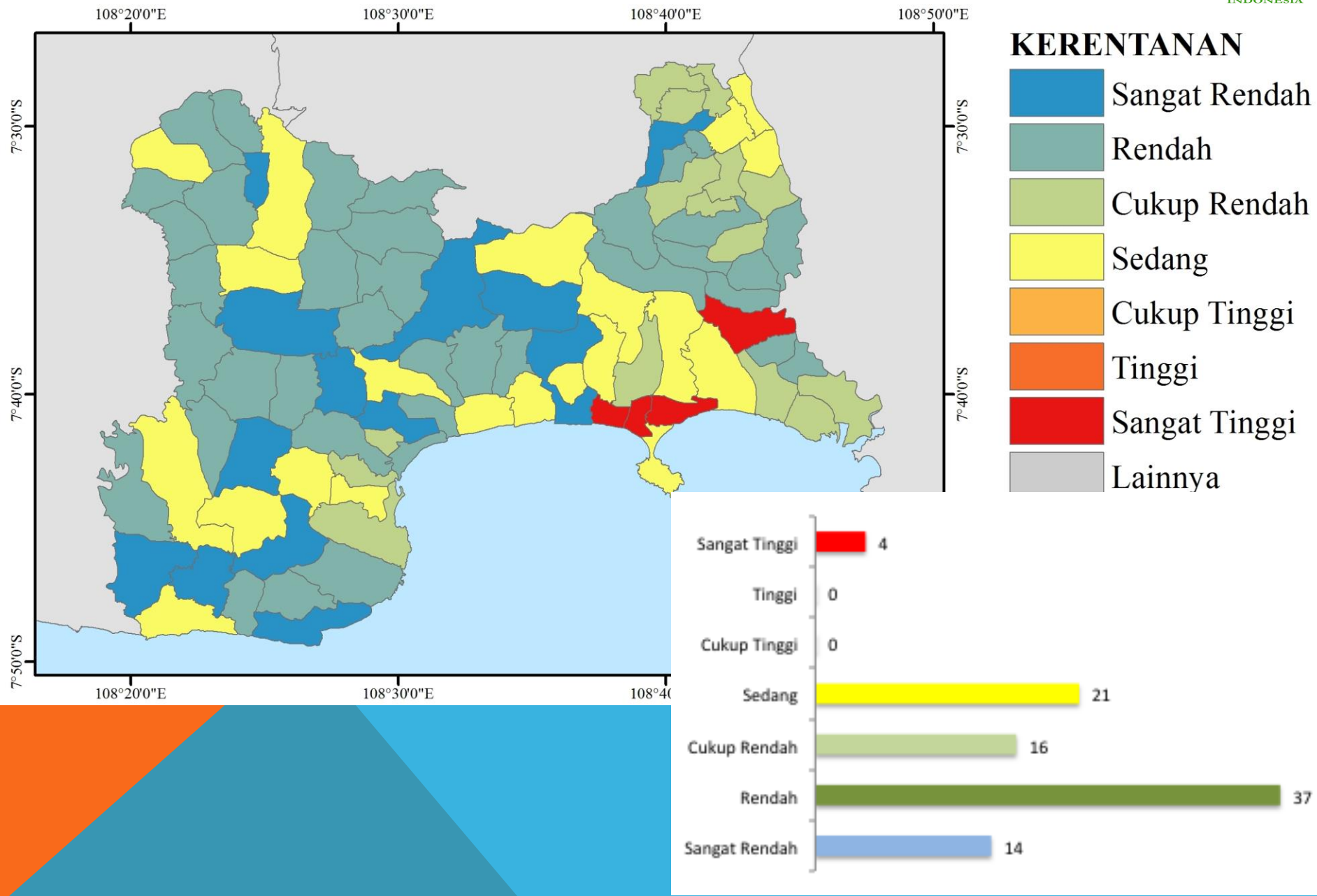


Sea Level Rise in South Coastal of Java Island (Average 0.97 mm/year) ~
Pangandaran 0.71 mm/year – Wuriatmo et al. 2012

SEA LEVEL RISE MAP OF PANGANDARAN AND CILACAP DISTRICT



Vulnerable Map of Pangandaran District (CCROM 2013)



STRONG WIND IN OCTOBER 2016



FLOOD



SALINE WATER



1. FLOATING PADDY FIELD



2. CLIMATE FIELD SCHOOL AND ACTION RESEARCH

LEARNING FROM THE NATURE



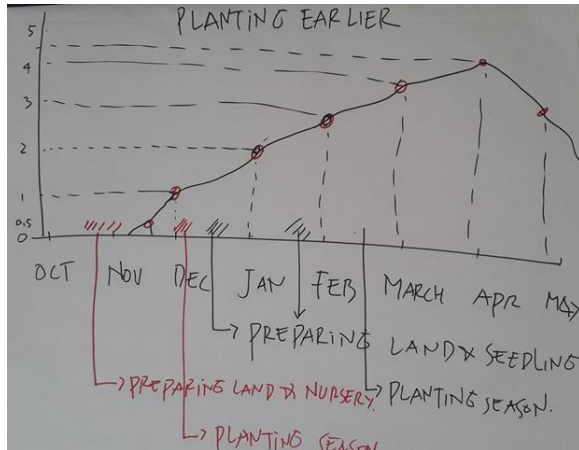
3. VEGETABLE CULTIVATION SYSTEM STAGE



4. NURSERY FREE FROM FLOOD



5. PLANTING EARLIER BEFORE TRUE RAIN COME



6. DRY SEASON : CHANGES WITH COMODITIES THAT NEED LESS WATER



7. PEST AND DISEASES CONTROL

LAMP TRAP AND GRAFTING



8. WATER HARVESTING



9. GREEN MANURE (*SESBANIA ROSTRATA* AND *AZOLLA* SP) FIXATIN NITOGREN AIR 70—90%



10. MANGROVE AND ALTERNATIVE LIVELIHOOD

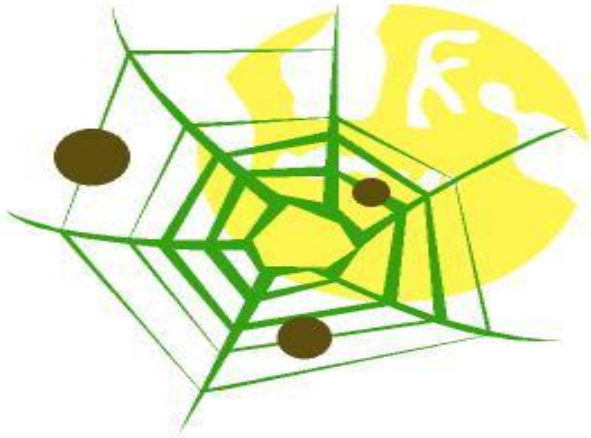


11. LOBBY AND ADVOCAY TO GOVERNMENT FOR DISEMINATION



TERIMA KASIH

IPPH TI



IKATAN
Petani PHT
INDONESIA

WE DO :

Farmer Impowerment

Ecological Farming

Learning by Doing

Action Research

**Training Farmer to
Farmers**

Farmers Rights