



Role of Forecast-based Financing (FbF) for Implementing Anticipatory Actions for Typhoons

Lessons Learnt from Emergency Operations and Preparedness Initiatives

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ESCAP/WMO TYPHOON COMMITTEE
15th Integrated Workshop





Part 1

Forecast-based Financing

Forecast-based Financing (FbF)

Forecast-based Financing (FbF) is an Early Warning Early Action approach which enables access to humanitarian funding for early action, that can be taken based on meteorological forecasts, combined with risk analysis, to prepare for extreme weather events.

The goal of FbF is to **anticipate disasters, reduce their impact**, if possible, and **save lives and livelihoods**.



Terminology

Forecast-based Financing (FbF)

Approach to Implement Anticipatory Action



Terminology



**Forecast-based Action (FbA)
by the DREF**

IFRC financing mechanism for FbF



Early Action Protocol (EAP)

Tool to access FbA by the DREF

4 Components of FbF



Triggers

Impact-based Forecasting (IbF) defines when and where early actions will be implemented

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Early Actions

Reduce the impact of a hazard between a forecast and the hazard occurring

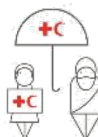
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Financing Mechanism

IFRC established a designated **ex-ante FbF Fund** for pre-agreed early actions, 'FbA by the DREF'

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Delivery

Capacity building & organisational development for RCRC staff & local actors is key

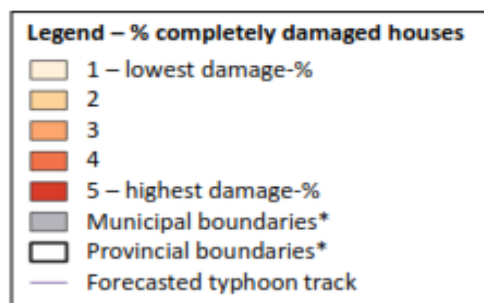
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Early Action Protocol (EAP)

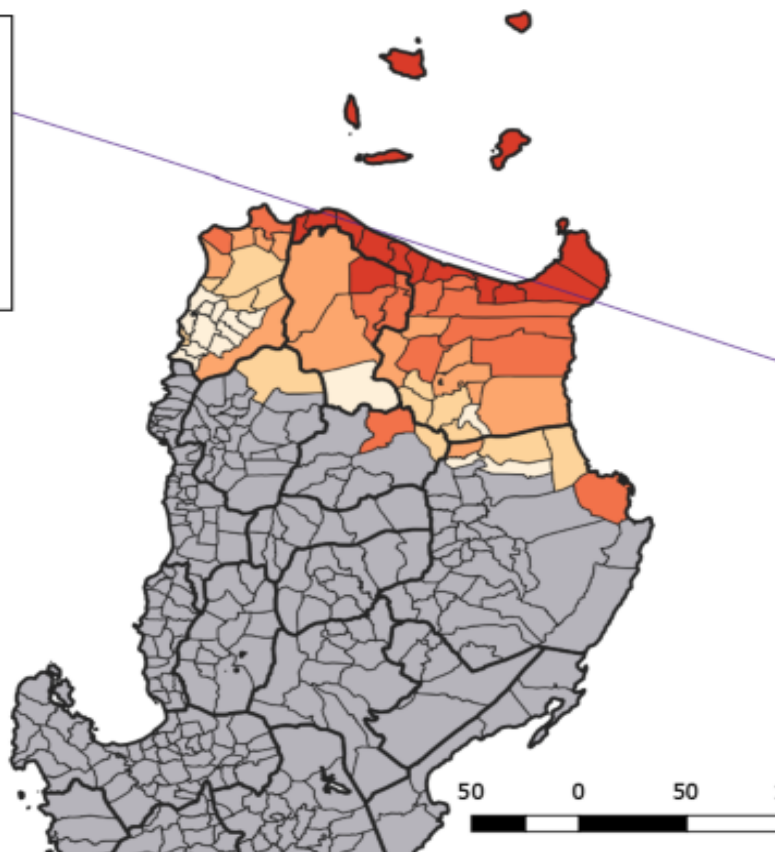


Triggers – Impact-based Forecasting



day
-3

*The maps used do not imply the expression of any opinion on the part of the International Federation of the Red Cross and Red Crescent Societies concerning the legal status of a territory or of its authorities.



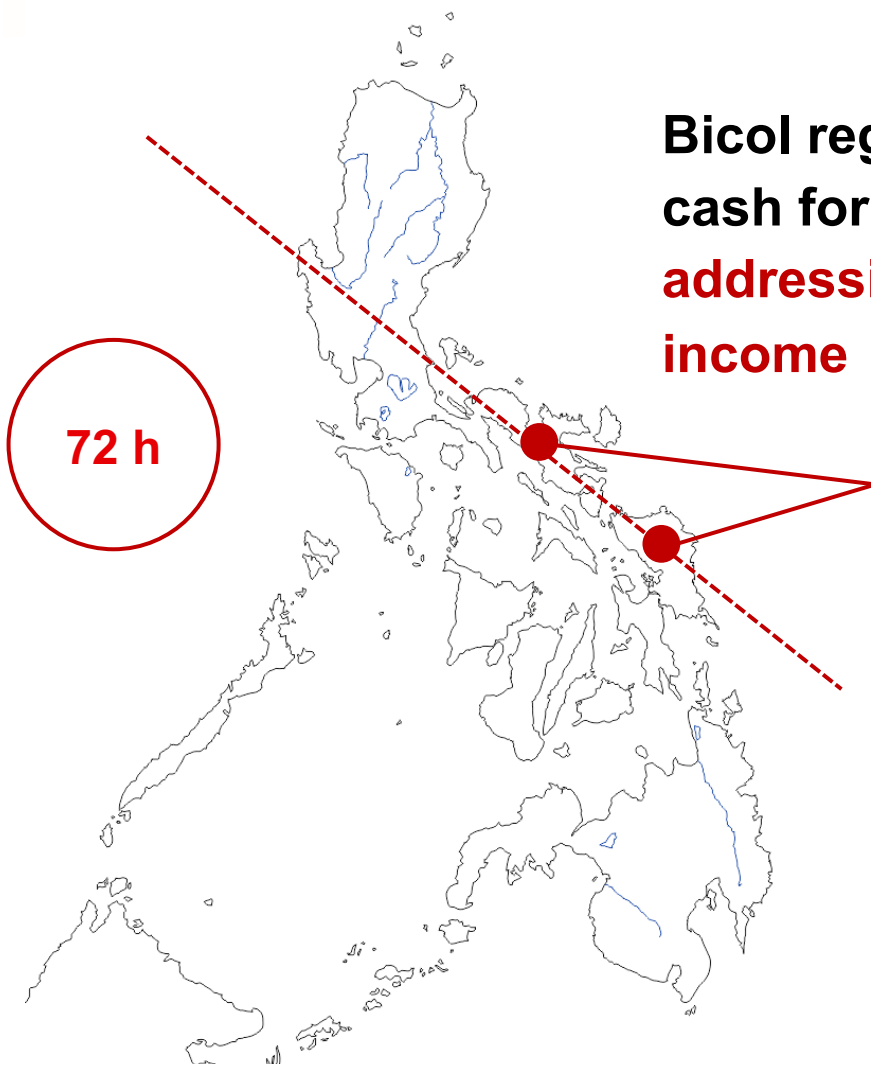
What does the weather **do**

Exposure & vulnerability



Localised early actions in the Philippines

same hazard, different early actions



Bicol region - early action:
cash for work for preharvesting,
addressing farmers' loss of income



Samar Island - early action:
house strengthening kits
addressing house destruction due to wind



Forecast-based Financing



Tajikistan	RCRC		
Kyrgyzstan	RCRC		
Pakistan		UN	START Network
India	RCRC		
Nepal	RCRC	UN	
Bangladesh	RCRC	UN	START Network
Myanmar	RCRC		
Mongolia	RCRC	UN	START Network
Vietnam	RCRC	UN	START Network
Indonesia	RCRC		
Philippines	RCRC	UN	START Network
Solomon Islands	RCRC		
Fiji		UN	

Regional hubs

RCRC UN START Network

Priority Countries



Part 2

Experience from Typhoon Tisoy (Kammuri)

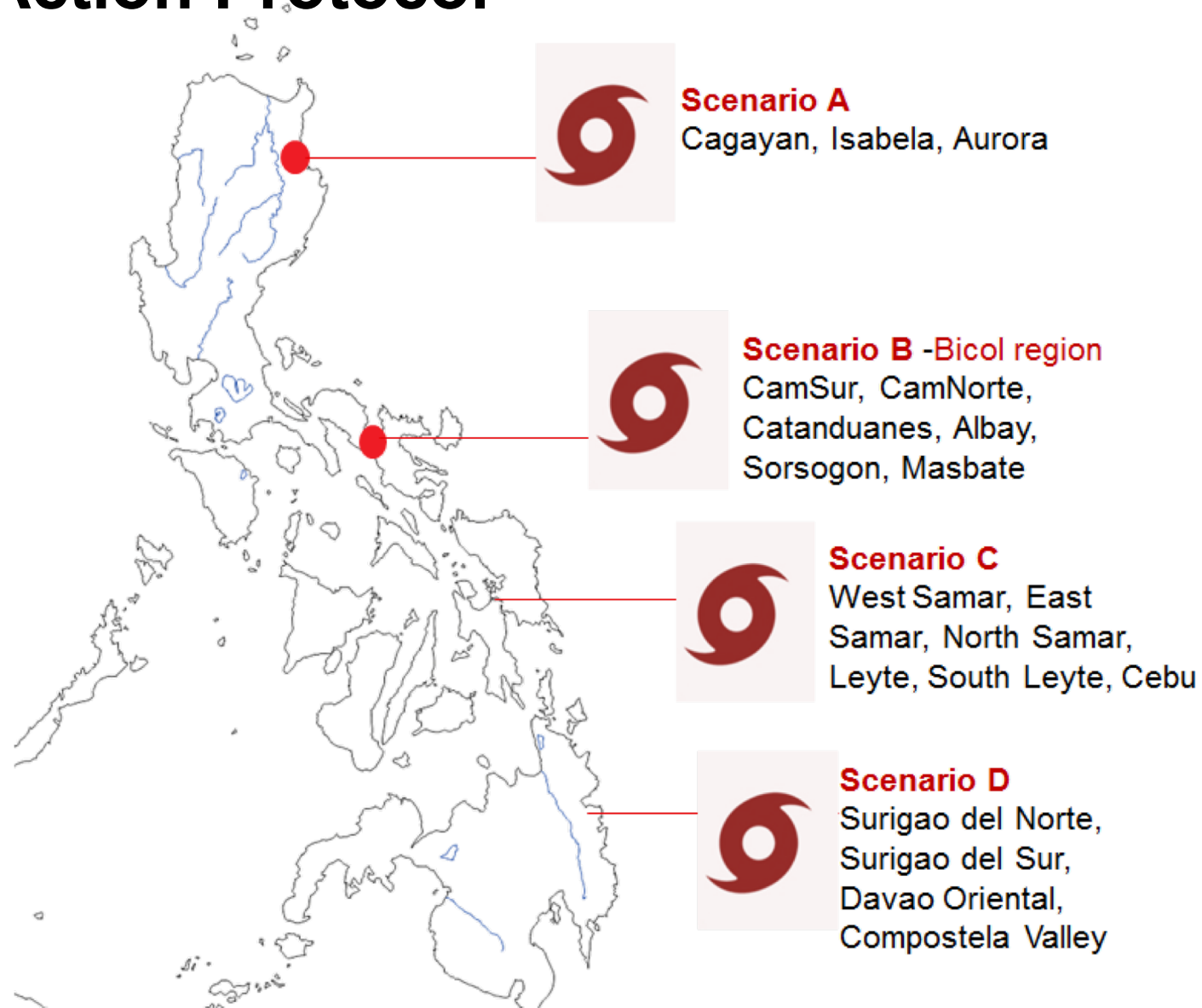


Philippine RC Typhoon Early Action Protocol

3 Early Actions to reduce the typhoon impact:

1. early harvesting of matured crops
2. livestock and assets evacuation
3. shelter strengthening kits (SSK)

Reaching between 1850 and 2150 beneficiaries.



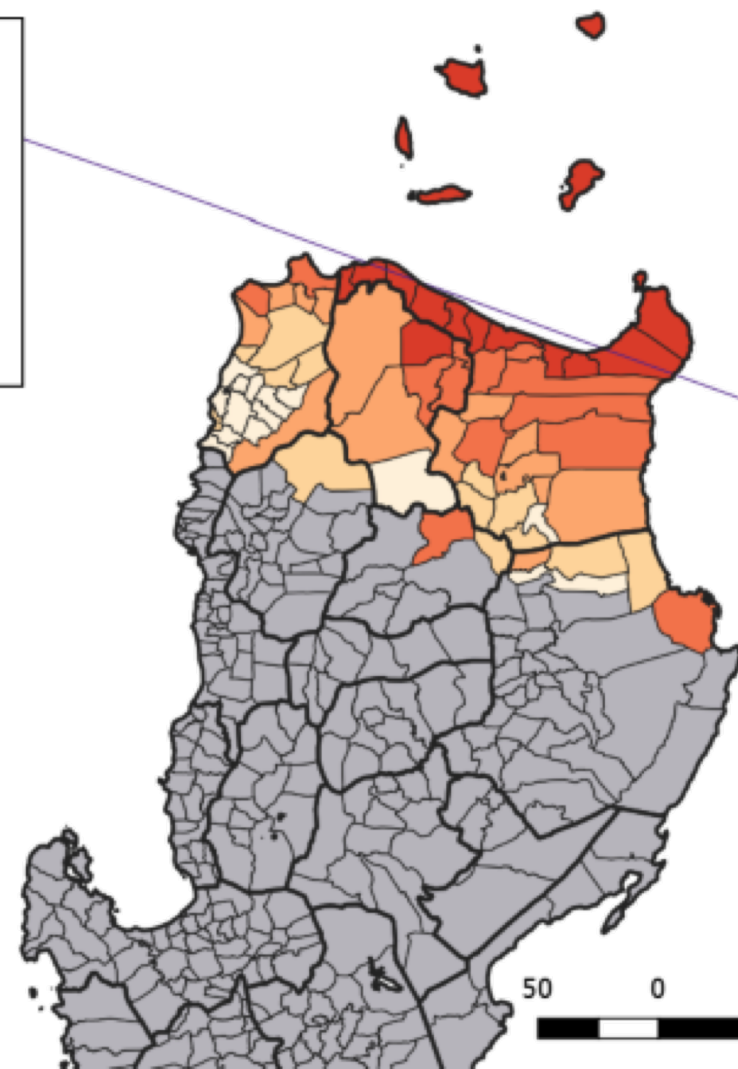
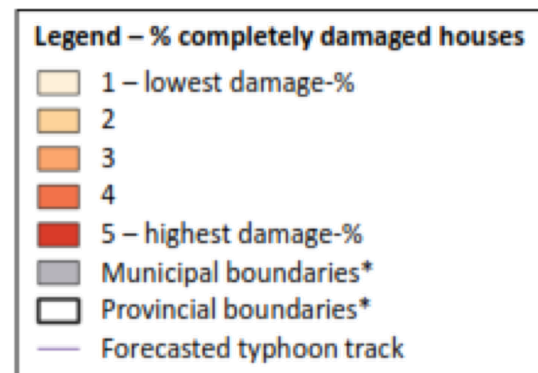


Philippine RC Typhoon Early Action Protocol

Typhoon Trigger

Early actions are implemented **if 72 hours before landfall:**

- the predicted **impact is more than 10% of houses totally damaged** at municipal level
- in at least **3 municipalities**



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Typhoon Tisoy (Kammuri)

Small-scale Activation – Nov/Dec 2019

120 hours before estimated landfall:

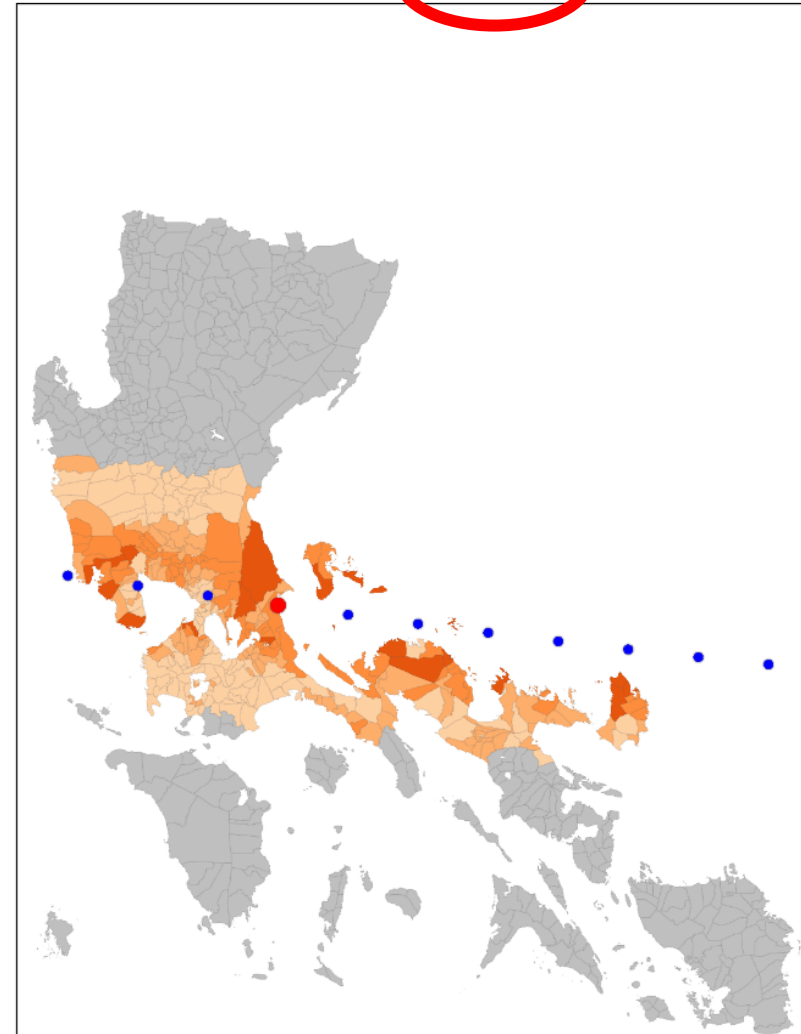
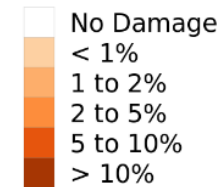
- First impact forecast received
- 'Pre alert' message sent to Bicol region

99 hours before

- 'Alert' message to all Bicol and Aurora PRC chapters
- Cash advance sent to 3 PRC chapters

Estimated time to Landfall: 2019-12-03 01:00:00 P.T (99 hrs)

Predicted % of Damaged





Typhoon Tisoy (Kammuri)

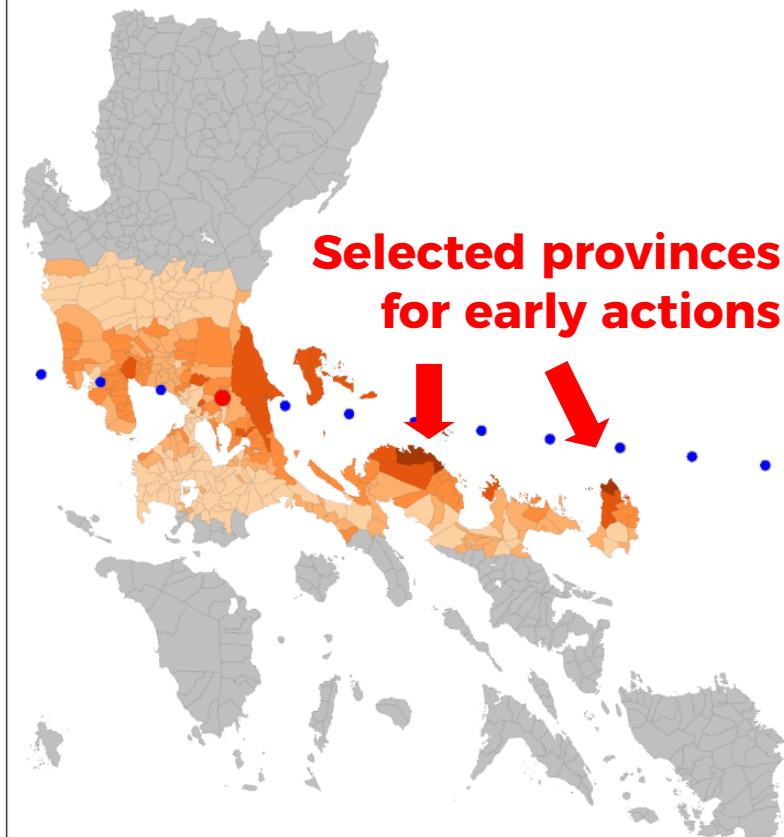
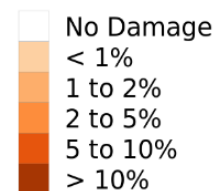
Small-scale Activation

81 hours before

- **Threshold reached** in 3 municipalities. Catanduanes & Camarines Norte informed
- Preparations started for **early action implementation**
- All early actions took place on day -2
- No activities were undertaken on day -1

Estimated time to Landfall: 2019-12-03 01:00:00 PST (81 hrs)

Predicted % of Damaged





Typhoon Tisoy (Kammuri)

Small-scale Activation

Day
- 2

Catanduanes – Early Harvesting of Abaca Trees

- In 5 barangays in Caramoran municipality
- 10 PRC volunteers deployed
- 20 workers (abacaleros) hired in each barangays
- **3,000+ trees cut or trimmed in 7 farms**





Typhoon Tisoy (Kammuri)

Small-scale Activation

Day
- 2

Camarines Norte – Shelter Strengthening Kits (SSK)

- 2 barangays involved in municipality of Mercedes
- 8 volunteers deployed, 2 teams of 5 workers hired
- **10 SSK installed on day -2**
- Can be easily scaled up once the SSKs are prepositioned in all regions





Typhoon Tisoy (Kammuri)

Small-scale Activation

Day
– 2

Camarines Norte – Evacuation of Livestock

- Plan the evacuation with PDRRMO and provincial Vet
- Recruitment of 15 workers for preparation of temporary fencing
- Information disseminated to the barangays (pickup sites, time)





Typhoon Tisoy (Kammuri)

Small-scale Activation

Post-impact assessment

- Beneficiaries had considerably **less damage to their shelters** compared to non-beneficiaries
- The majority of beneficiaries for cash for work immediately used the **money to purchase food & other necessities** for their households





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