



Development of an Advanced Tropical Cyclone Early Warning System for the Philippines

Proponent

Prisco Nilo, PAGASA

Lead Scientist

Johnny Chan

City University of Hong Kong

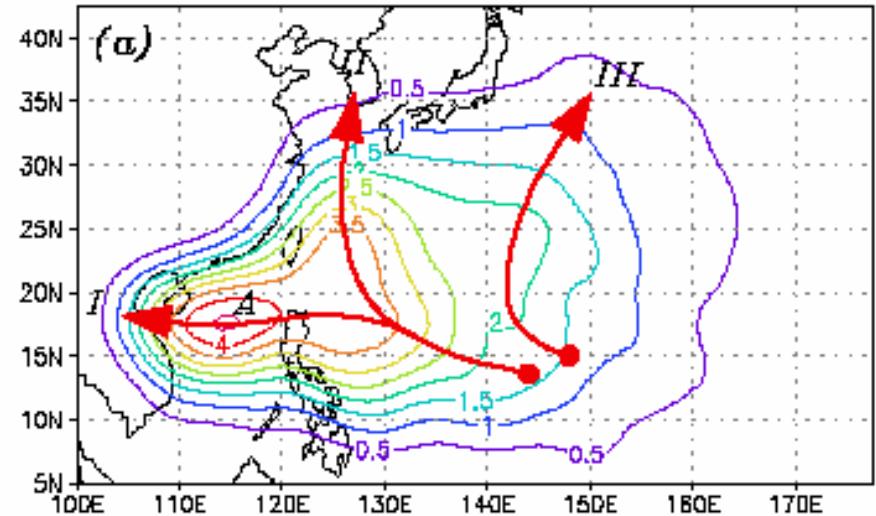
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June-October Mean Frequency of TC Occurrence (1965-2003)

- Every year, ~ 20 tropical cyclones enter the Philippine Area of Responsibility
- ~ 9 make landfall
- Casualties and damage are tremendous



Year	Casualties	Damage (US\$M)
2000	343	166.0
2001	431	153.9
2002	605	76.8
2003	139	80.4
2004	1,232	140.2

Objectives

- **Transfer of technology to provide state-of-the-art numerical predictions of tropical cyclone landfall and hydrological models to predict floods**
- **Training of decision-makers, emergency managers, non-government organizations, and educational programs for the public, to generate the appropriate response to tropical cyclone threat**

Components of the project

- *Transfer of advanced technology, experience and training*
- *An internal infrastructure enhancement*
- *A monitoring and re-assessment component*

Expected outcome

- 20% improvements in track forecasts
- 12-18 hour increase in tropical cyclone warning lead times
- 20% reduction in deaths and decrease in economic losses
- creation of a dynamically-based hydrological forecast system for tropical cyclone-related rainfall
- issue flood warnings with at least a 12-hour lead time
- this project will serve as a model for similar projects in other Typhoon Committee member countries