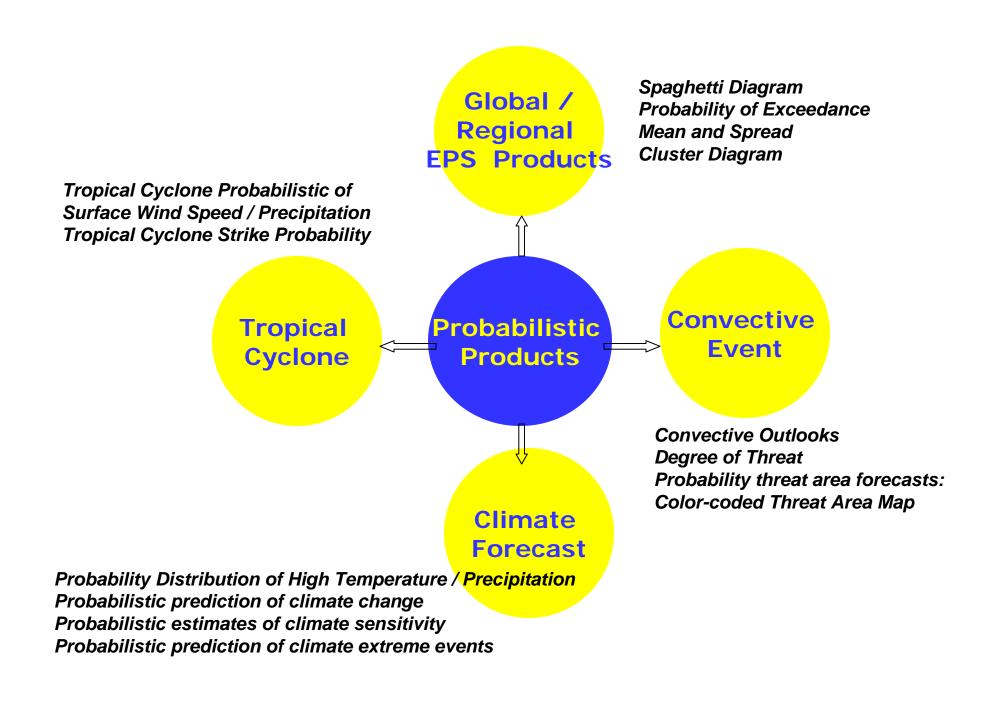
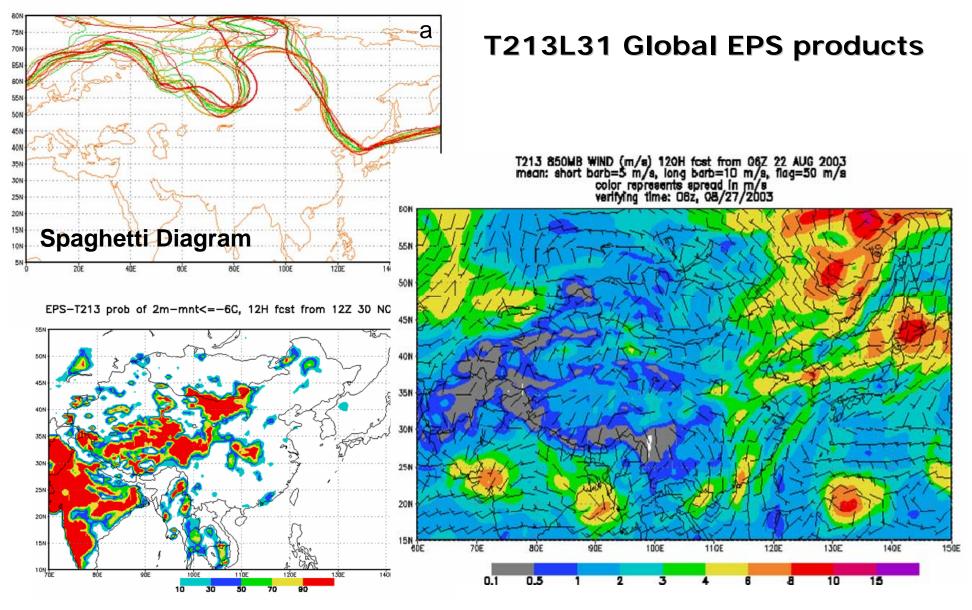
# Communication of Probabilistic Forecast Products

- > Probabilistic Products
- > Communication Chain
- > Future Plan

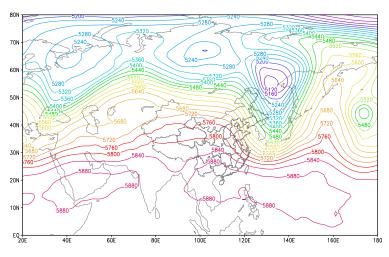




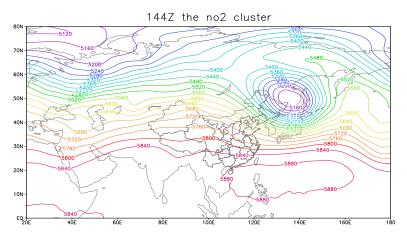
**Probability of Exceedance** 

**Mean and Spread** 

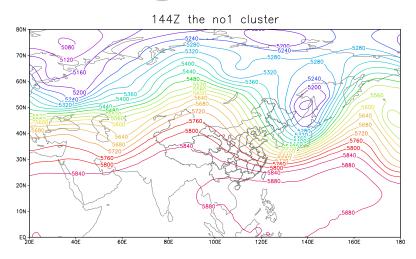
#### Products--Cluster Diagram



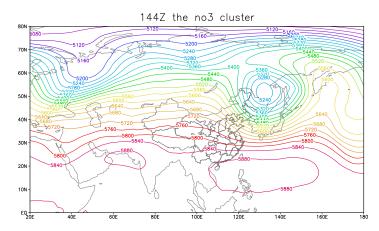
06111212UTC



The probability is 33.3%.



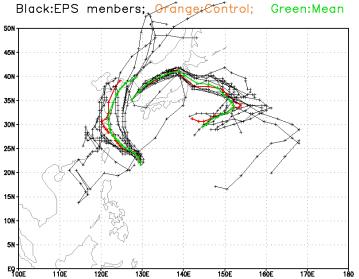
The probability is 20.0%.



The probability is 46.7%.

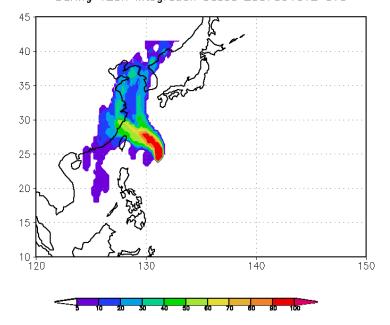
# TC-EPS Products Typhoon (0713) WHIPA

Tracks from TC-EPS,
120h integration based on 2007091612 UTC



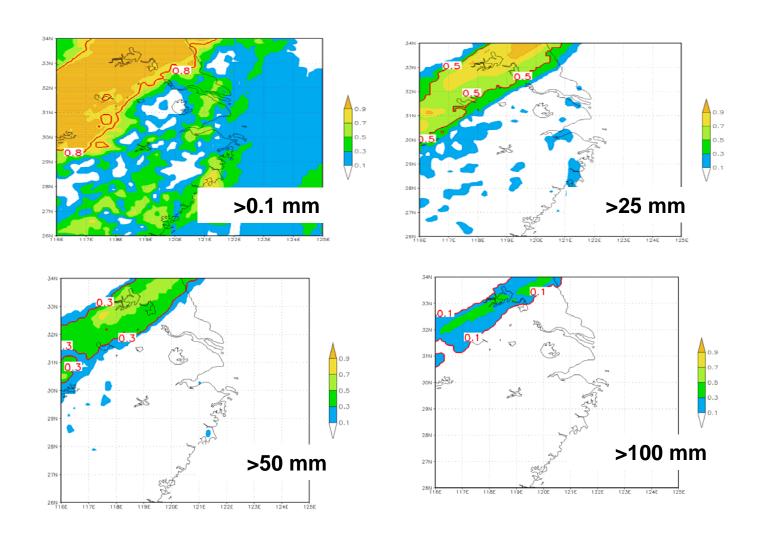
Probability that TC(713) will pass within 120km radius

During 120h integration based 2007091612 UTC

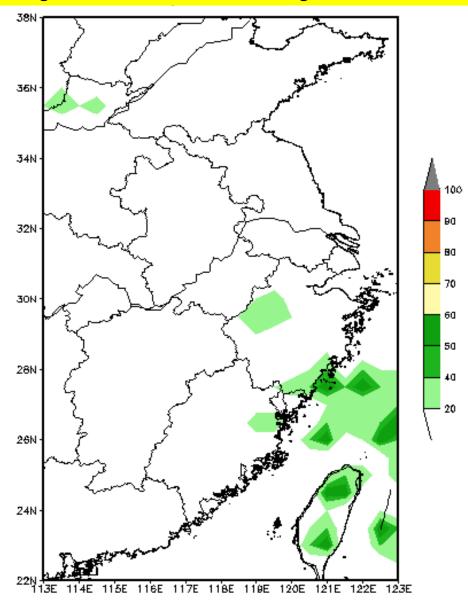


GrADS: COLA/IGES 2007-09-16-21:13

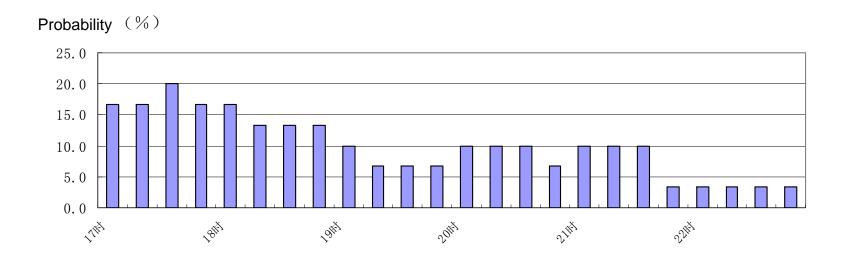
# Probability of precipitation in 24 hours prediction from regional model



# The probability of severe convection in East China every 6 hours in two days outlook

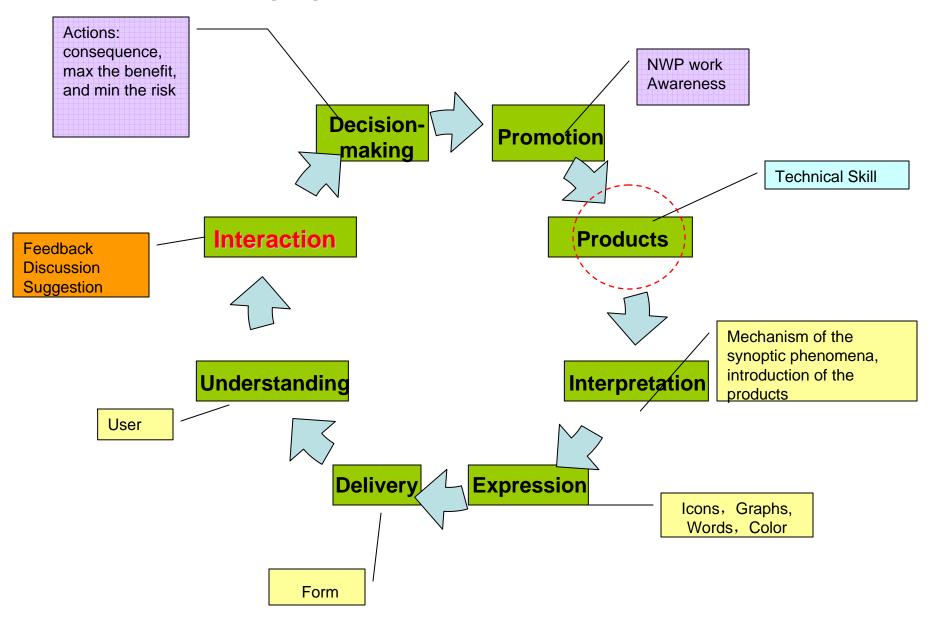


#### Climate Probability Products



The probability of precipitation for 30 years at interval of 15 minutes.

#### Communication Chain



### Interpretation

- Use well-defined terminology and clear language
- Use appropriate likelihood scale to describe the terminology about uncertainty

# Expression

- Uncertainty can be expressed in spatial and temporal depiction, so it is suggested to combine the two aspects
- Different expression for different user

### Understanding

- Enhance the awareness of the user for forecast uncertainty
- User Fostering

# Interaction -- Most important

- For decision-making service, choosing the threshold of the extreme situation carefully (e.g. alternative and worst-case scenarios considered)
- For special users, suggesting them to participate in the procedure of information providing and decision making
- Giving the corresponding suggestion when probabilistic forecast products provided
- Combined action in different fields (e.g. partnership built between meteorology and other fields)

#### Future Plan

- Improving the forecast skill of NWP model
- More forecast products conveying uncertainty information
- Investigating user requirement for probabilistic products

