**Seasonal weights**

- Only models
- EGRR_EPS (global), Deterministic 2012 guidance (Florida verification)
- TIGGE (superensemble)
- Superensemble applied
- Objective Consensus Typhoon Track Forecasting
- Evaluating M0_ALL superensemble
- Simple consensus, ECMWF_TIGG, KMA and simple mean consensus for 24-120 h in 2012-2013 (Fig. 2).
- The mean track error is smaller than simple mean consensus by 82-457 km for 24-120 h in the 2012-2013 (Table 1).

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**Results**

- The comparison of 3 optimized experiments for superensemble:
  - M0_ALL shows the smallest track error in all forecast period and lower error distribution than any other experiments (Fig. 1).

**Table**: The comparison of mean-track error of superensemble, simple mean consensus, KMA forecast, ECMWF_TIGG and GFS (for 2012-2013).

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**Conclusions**

- Superensemble shows the better performance when component models consist of deterministic and ensemble prediction models and weights are calculated from past typhoon data in whole year. Also, this consensus performs better than simple mean consensus and deterministic models (ECMWF_TIGG and GFS).
- This results shows the good possibility that objective consensus using superensemble will be used in typhoon forecast guidance.

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**References**


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