Typical Weather Forecast Errors in Eastern Asia Assessed Using Hourly Observations Cameron Gilbert¹, Sandra Yuter^{1,2}, Rachel Kennedy¹, Matthew Miller¹ NC STATE ¹Department of Marine, Earth, and Atmospheric Sciences and the ²Center for Geospatial Analytics North Carolina State University, Raleigh, NC environmentanalytics.com



Time Zone	Bangladesh	Bangkok	Beijing	Tokyo	Sydney	Marshall Is
Time of estimated daily minimum temperature	1 UTC	0 UTC	23 UTC	22 UTC	21 UTC	20 UT
Time of estimated daily maximum temperature	9 UTC	8 UTC	7 UTC	6 UTC	5 UTC	4 UT

Summary

Similarities between East Asia and North America

- temperature and dew point
- GFS tends to predict dew points that are too dry
- consistent with findings in eastern North America

Both models have a warm bias during the winter at 7 AM (the daily low) • The widest distribution of errors occurs at 7 AM in the winter for both

• COAMPS dew point predictions for Asia are too moist in the winter,

Future Work

Different distributions of temperature errors in East Asia and North America may be related to differing upstream environments and ranges of latitudes of observation stations in the two regions

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