

Institute of Meteorology , Hydrology and Environment, Mongolia

Recent climate feature and seasonal outlook for winter 2014/15 in Mongolia

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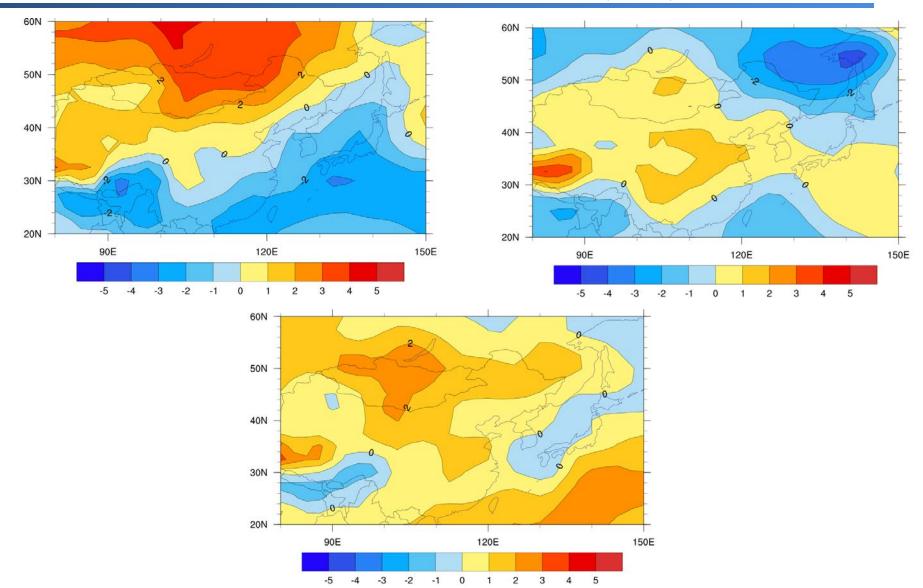
Tokyo, Japan 29-31 October 2014



Last summer climate review

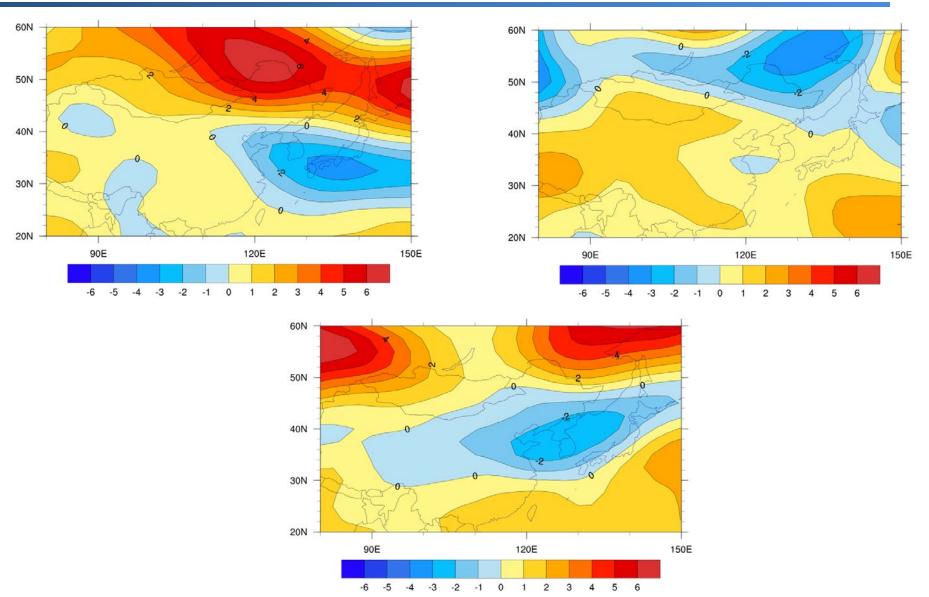


MSLP & Anomaly (JJA)

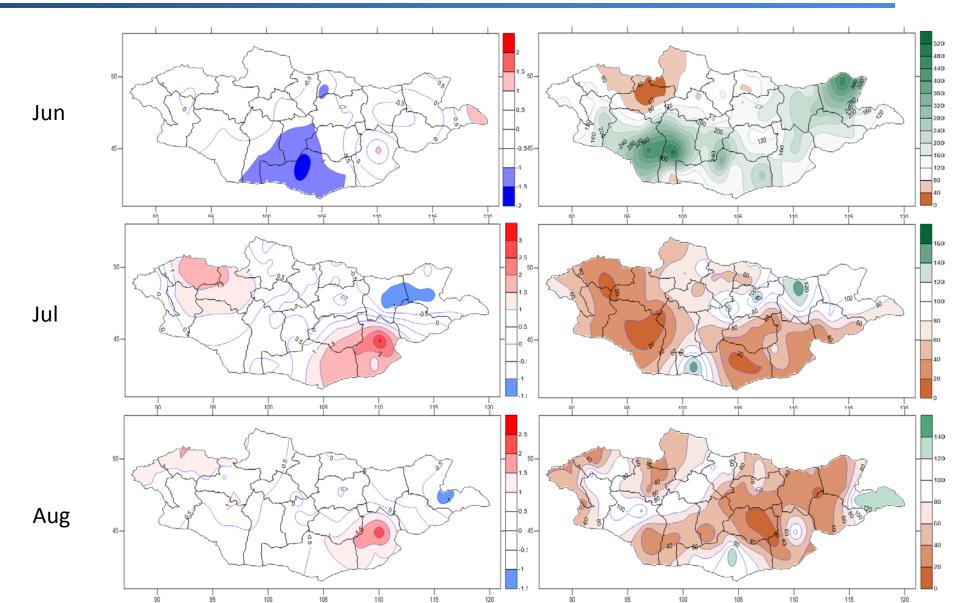




Anomaly of 500hPa (JJA)

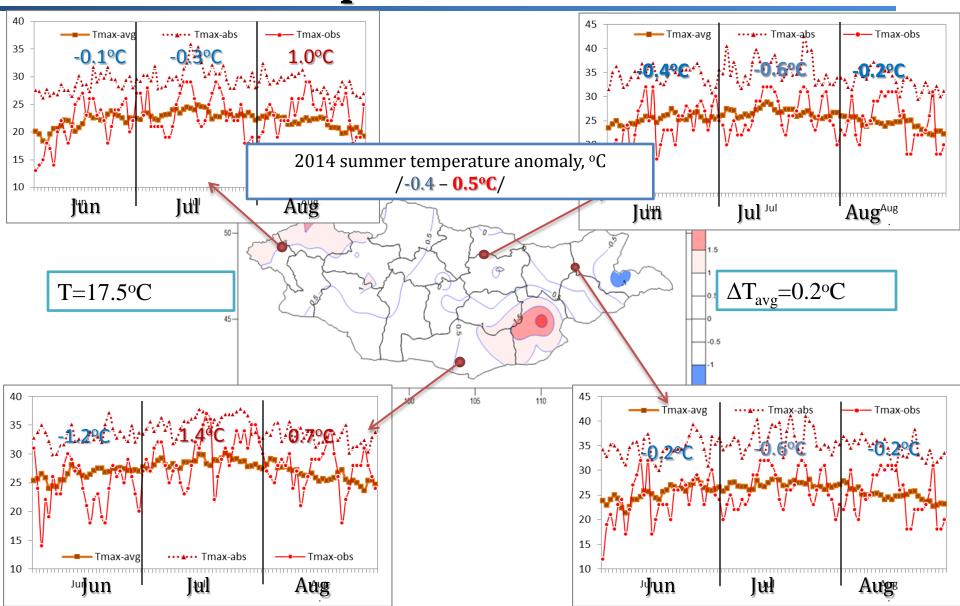


emperature and Precipitation anomaly



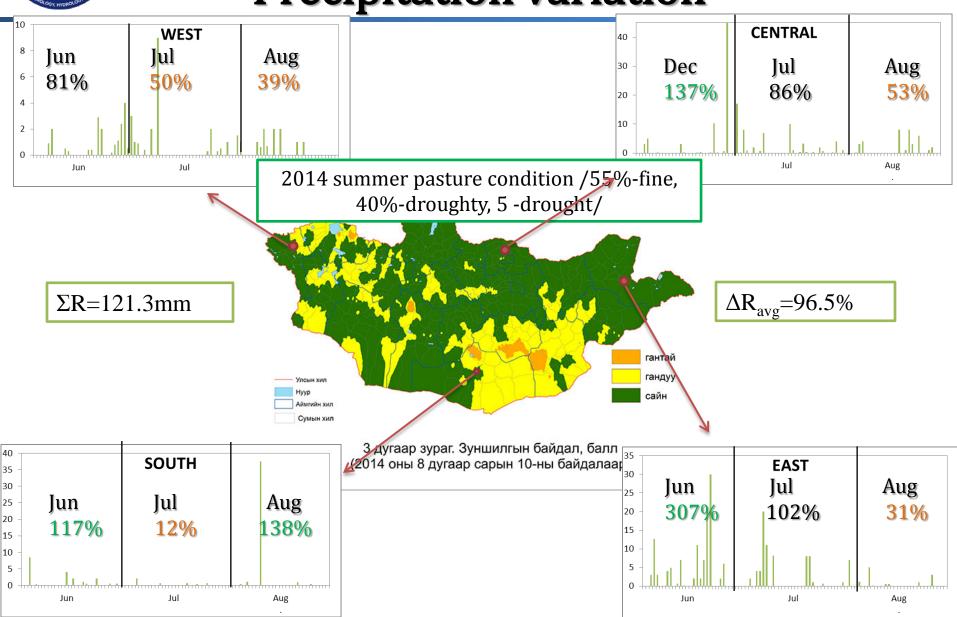


Temperature variation





Precipitation variation



Notable event-squall line with Tornado

- Tornado (Nomgon)
 - 100m width
 - 10km long
 - More than 50m/c (F3 categogy)
 - Hail with more than 5cm diameter
- Damage
 - 2 mortalities
 - Many livestock
 - 1 billion tugr









Summary

- Temperature anomaly was near normal and ranged between -0.4 and 0.5°C.
- In general, near normal precipitation has observed almost all over the country. However, month to month variation was different. Precipitation in June was above normal and precipitation in Jul, Aug was below normal.
- As a result, 50 % pasture condition was fine over 55% of whole pasture land, droughty 40% and drought 5%.
- F3 category Tornado observed in central Mongolia and is first ever captured by video.



2014/2015 winter outlook



Methods

- Lagged –correlation method –lead time: 6 month
- "Extreme" statistical model lead time: 6 month
- Statistical downscaling of TCC, GCM –lead time:
 1 month
- Statistical downscaling of APCC, GCM lead time: 1-3 month
- Forecast maps of other centers including TCC, KMA, IRI, ECMWF, NCEP, ...

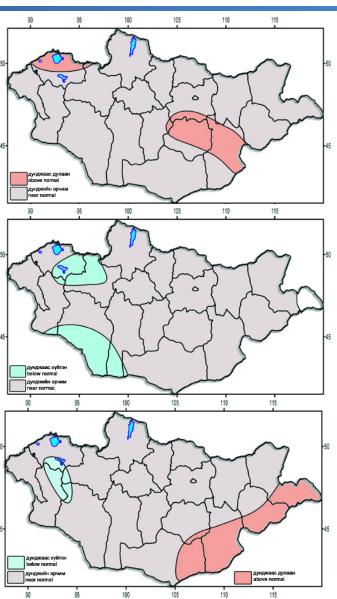
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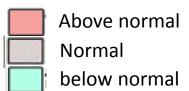
Temperature – WINTER 2014/2015

• December

January

February





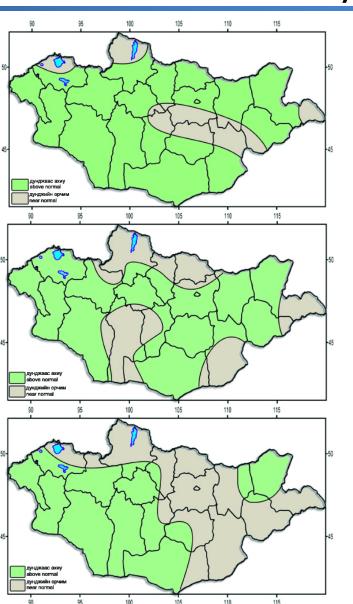


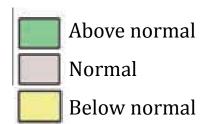
Precipitation –WINTER 2014/2015

December

January

February







Verification of last summer outlook

Region	Month	Temperature Anomaly		Precipitation ratio (%)	
		Fore	Obs	Fore	Obs
West	Jun	Α	N	B/N/A	B/A
	Jul	Α	A/N	N	В
	Aug	N/A	A/N	N	B/N
Center	Jun	Α	N	N	N
	Jul	Α	N	N	B/N
	Aug	N	N	N	N/B
East	Jun	N	N	N/A	A/N
	Jul	N	B/N	N/A	A/N
	Aug	N/A	N	N/B	B/A
Gobian	Jun	N/A	В	A/N/A	A/N
	Jul	A/N	N/A	N/A	N/B
	Aug	A/N	N/A	N/B	N/B

• Last summer forecast verification T-63.2, R-57.4



Summary

- Temperature is expected to be mostly near normal during the winter.
- Precipitation above normal throughout the country almost in all months.



THANK YOU FOR YOUR ATTENTION