

metbrief: 2014-02-09

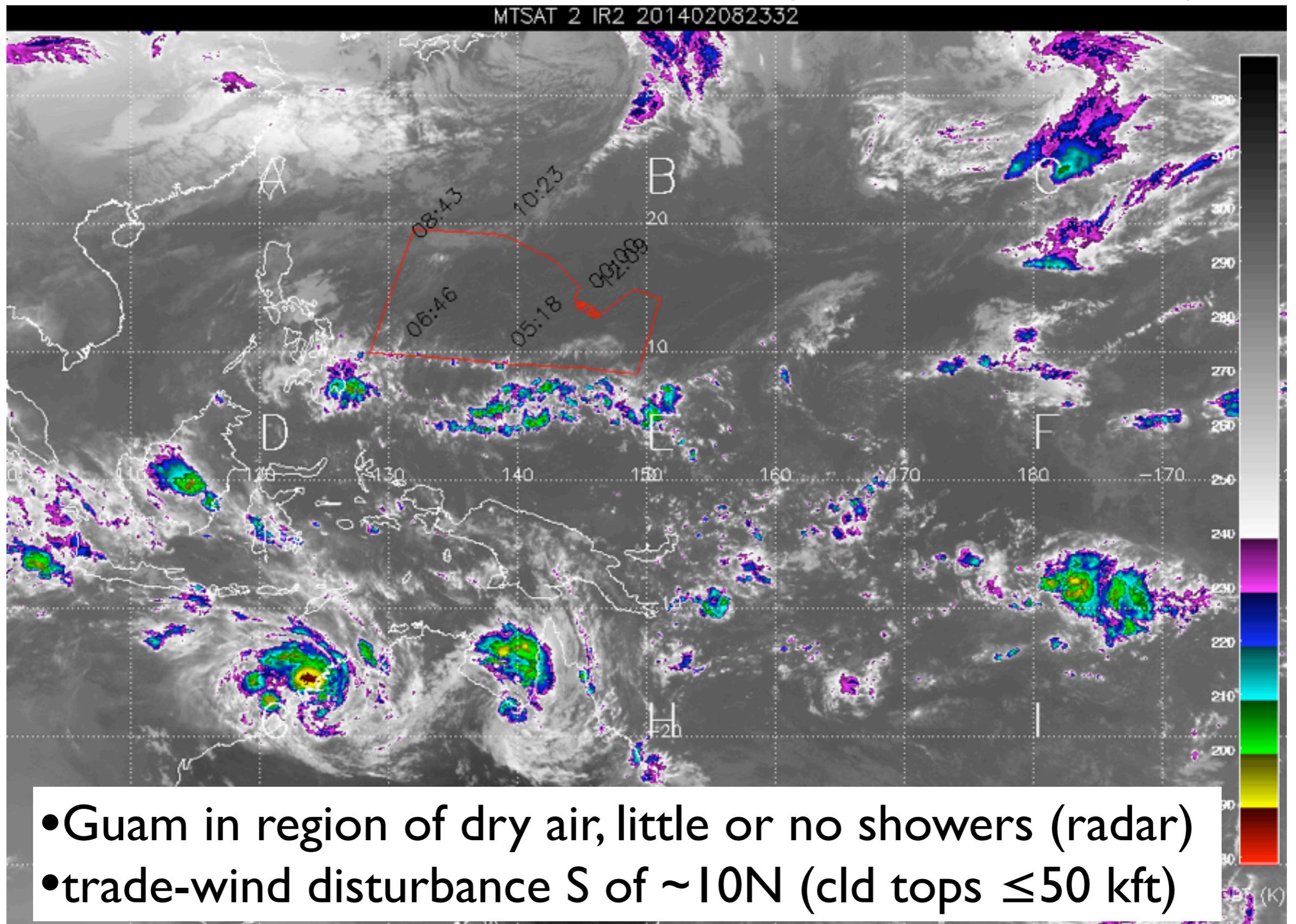
(next flight 2014-02-11 Tue)

- dry air and NE trade-winds prevail over Guam
- trade-wind disturbance (convective precip) remains south of ~10N
- outlook: shear line (w/ isolated showers) forming and approaching Guam Wed PM (or later)

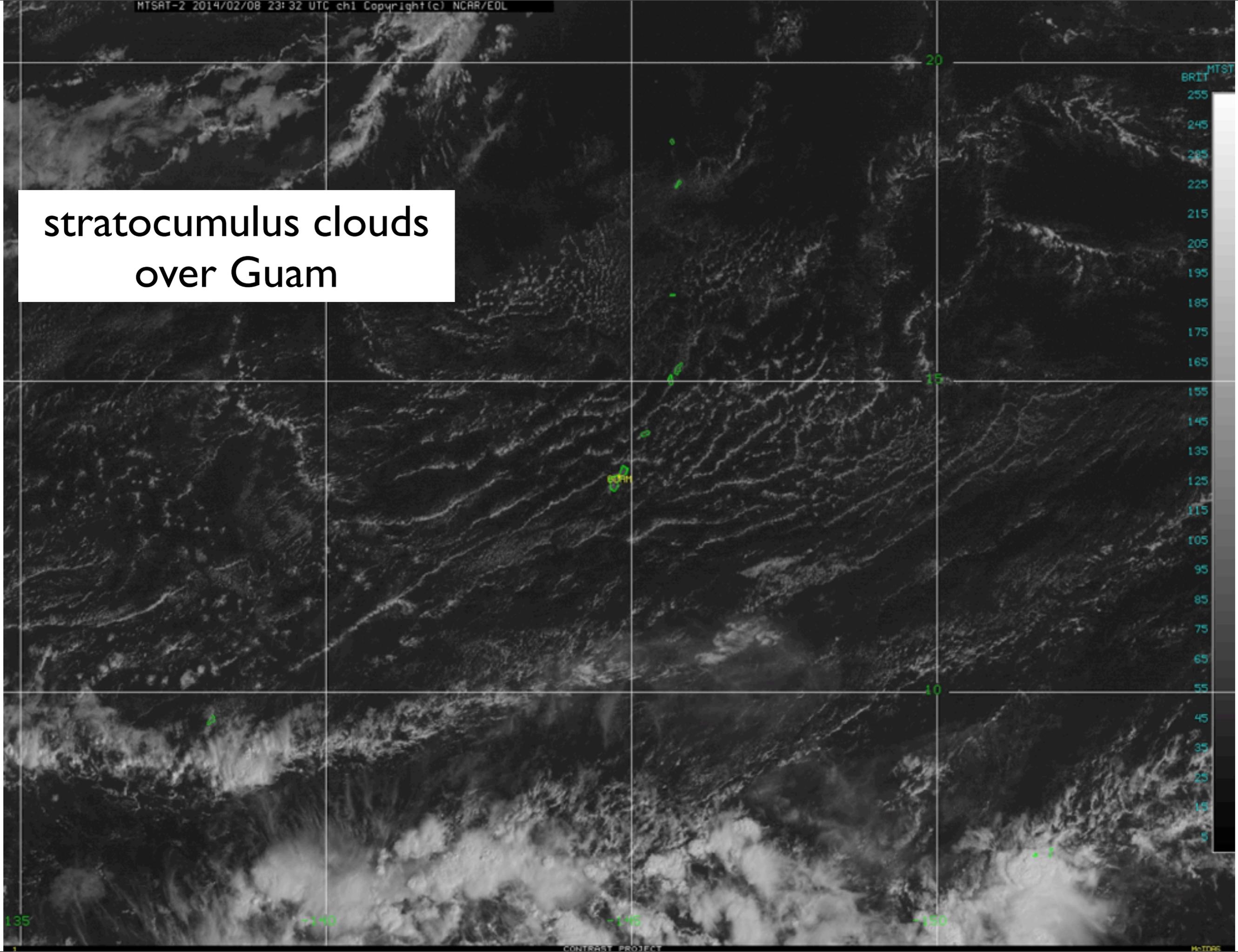
	wind	cld cover (base)	precip	
Tue takeoff (04-10AM)	5-10 knt ENE → E	few (2500 ft), scattered (2500 ft) → few (2500 ft)	low prob	
midflight (04PM)	convective precip S-SW of Guam (5-9N, 125-145E), cld tops ≤50 kft; weak N			
landing (10PM)	5-10 knt ESE	few (2500 ft), scattered (2500 ft)	low prob	
Wed takeoff (04-10AM)	5-10 knt ENE	few (2500 ft), scattered (2500 ft) → few (2500 ft)	low prob	
midflight (04PM)	convective precip S-SW of Guam (0-8N, 125-145E), cld tops ≤50 kft			
landing (10PM)	10-15 knt ENE	scattered (2500 ft)	isolated	850mb RH ↑

'current' condition:

satellite IR imagery on 2014-02-08, ~23UTC
(02-09 Sun, ~09AM)

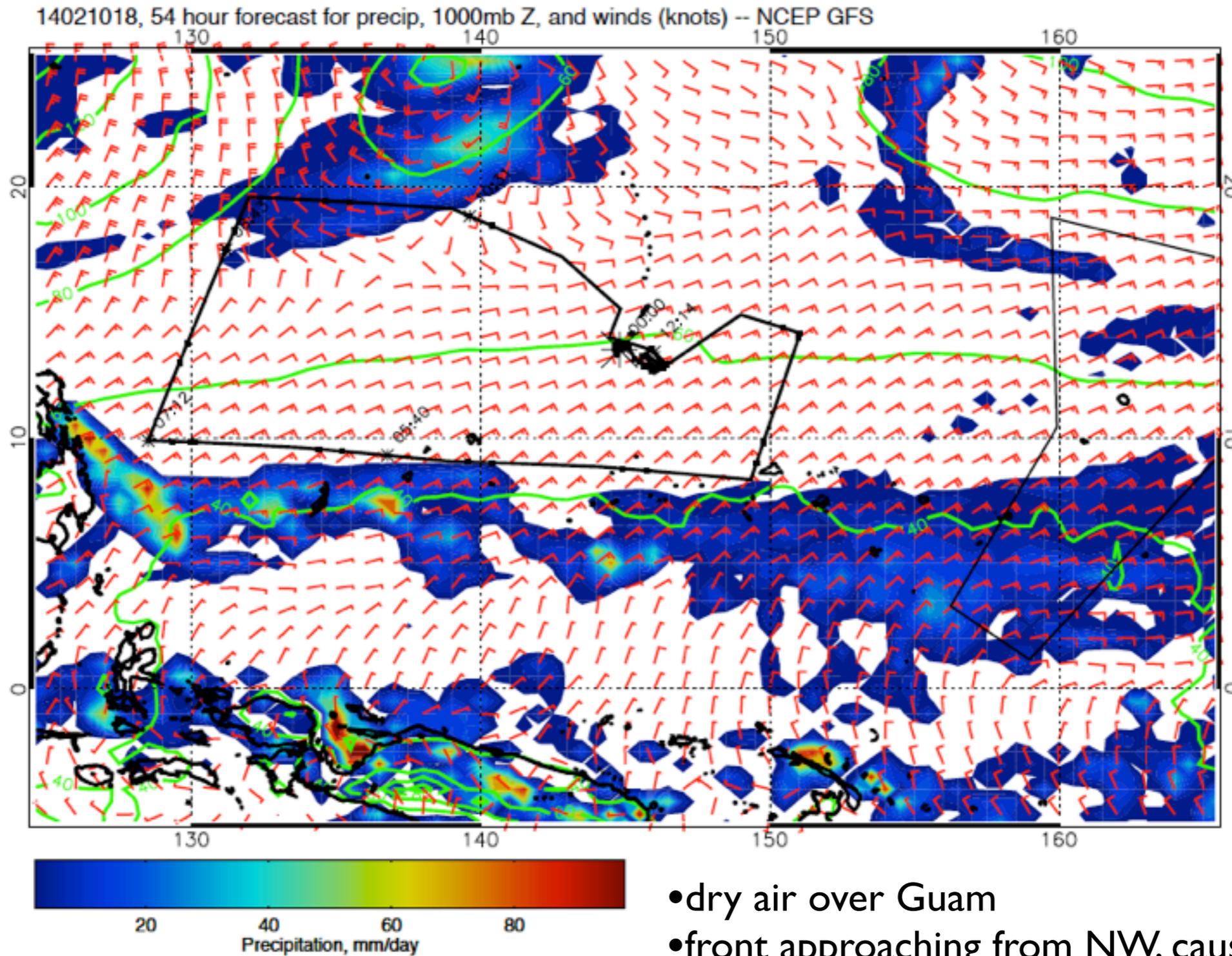


stratocumulus clouds
over Guam



'Tue take-off' condition (GFS):

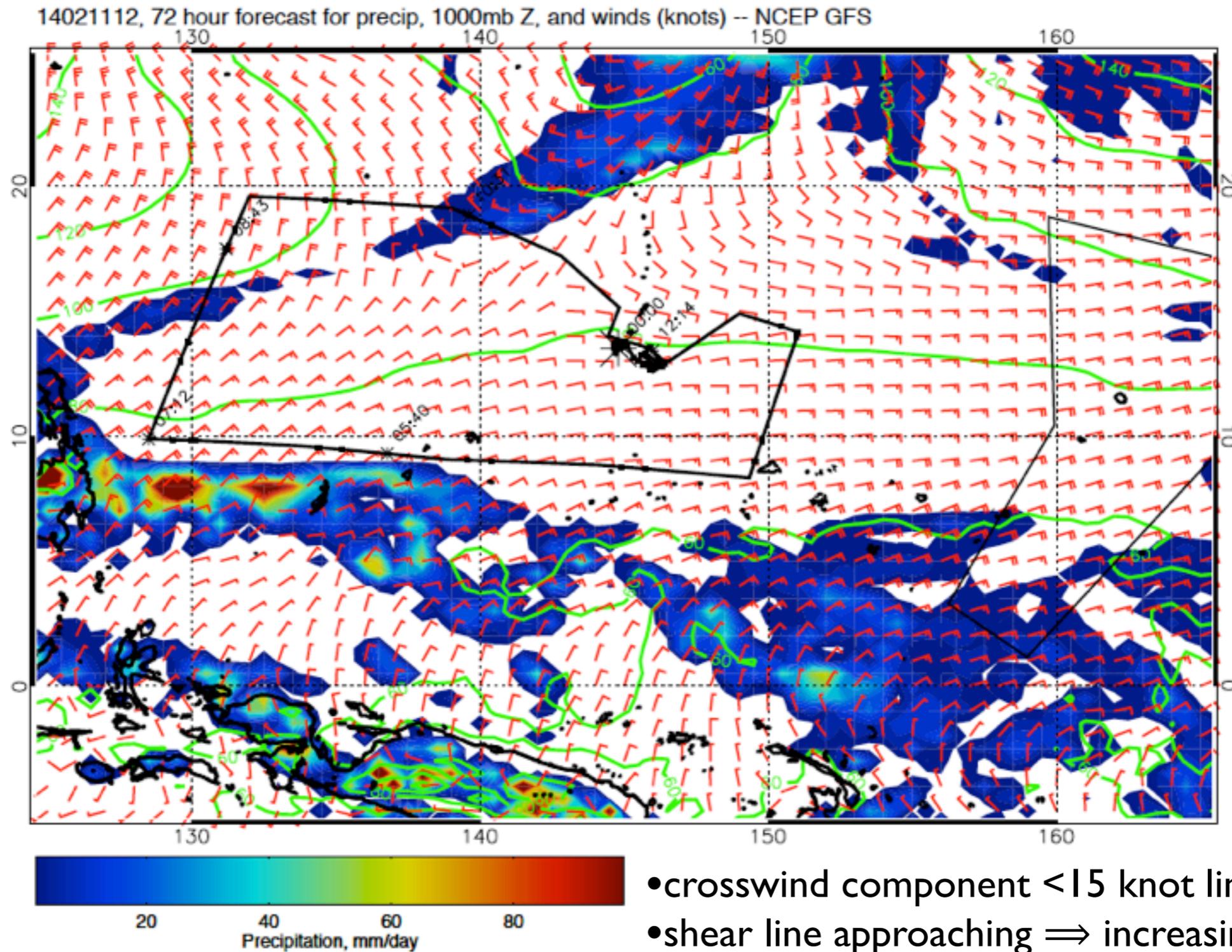
1000mb precip & winds on 2014-02-10, 18UTC
(02-11 Tue, 04AM)



- dry air over Guam
- front approaching from NW, causes change in wind direction from ENE to E (10AM) to ESE (10PM)

'Tue landing' condition (GFS):

1000mb precip & winds on 2014-02-11, 12UTC
(02-11 Tue, 10PM)

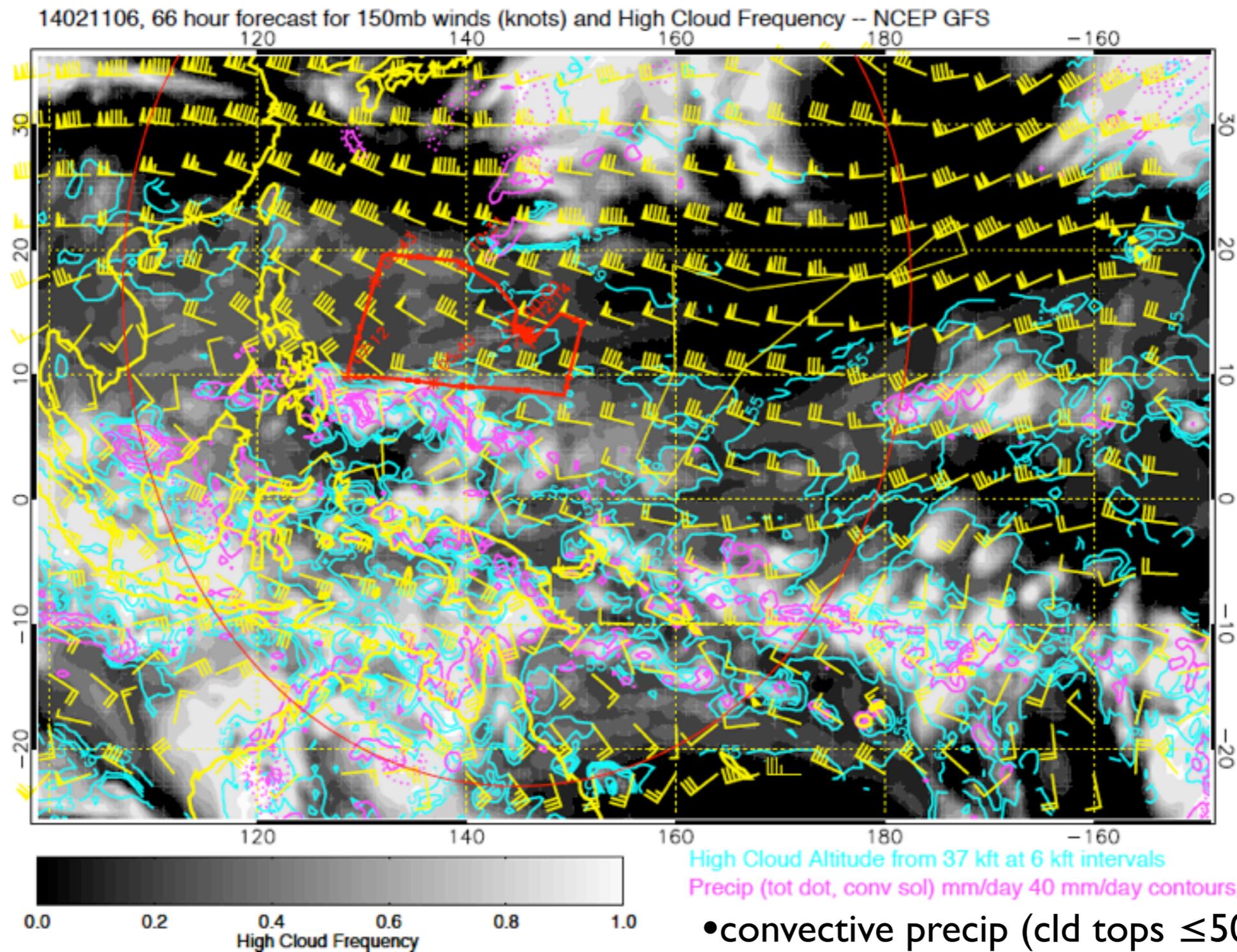


ESE
10 knt

- crosswind component <15 knot limit
- shear line approaching \Rightarrow increasing cloud cover and isolated showers Wed PM through Fri (models disagree on timing, too fast)

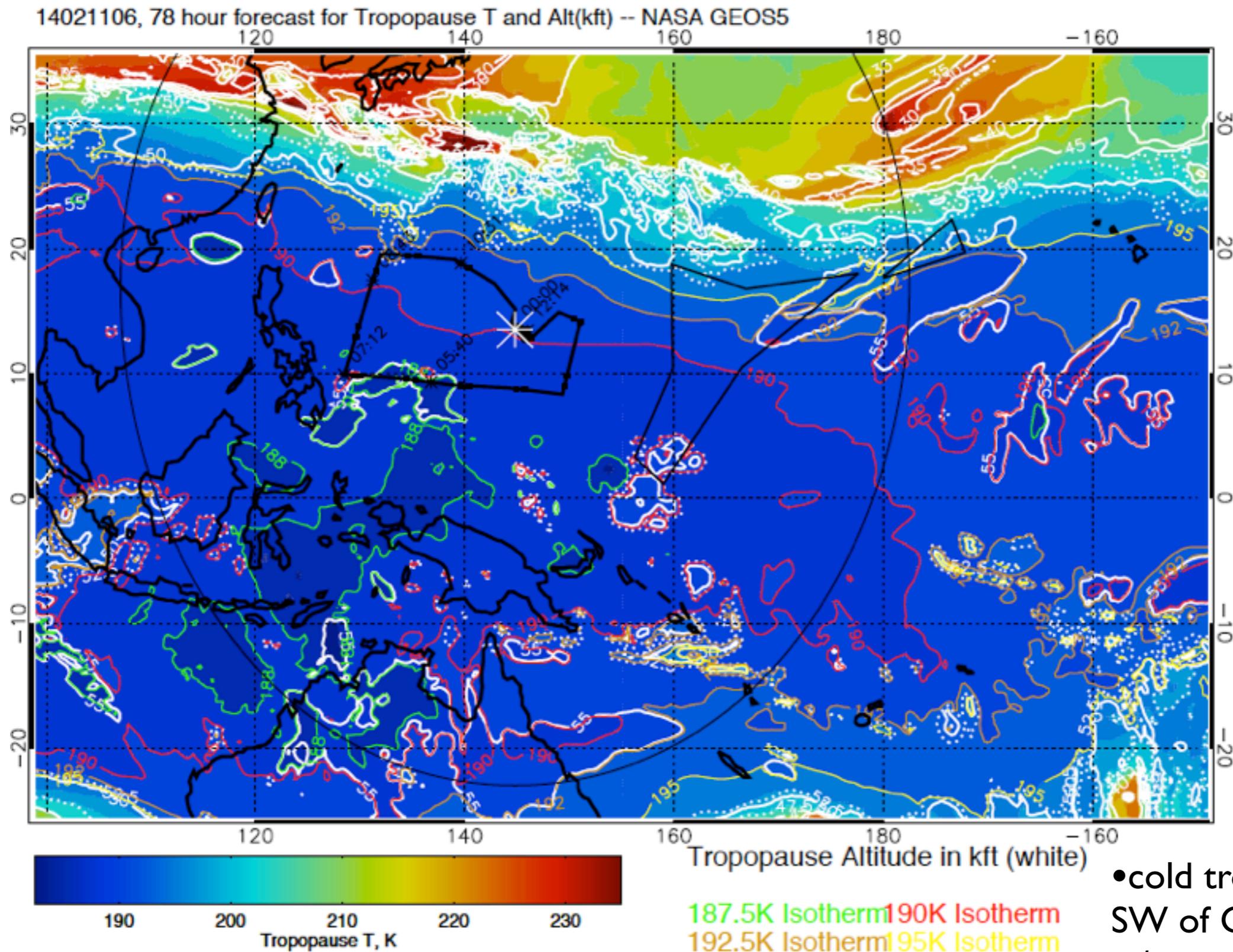
‘Tue midflight’ condition (GFS):

high clouds & 150mb winds on 2014-02-11, 06UTC
(02-11 Tue, 04PM)



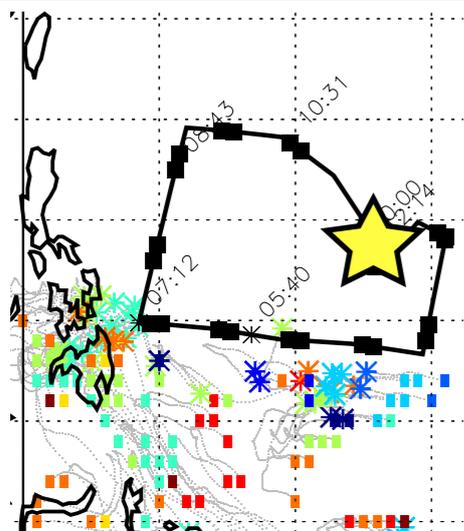
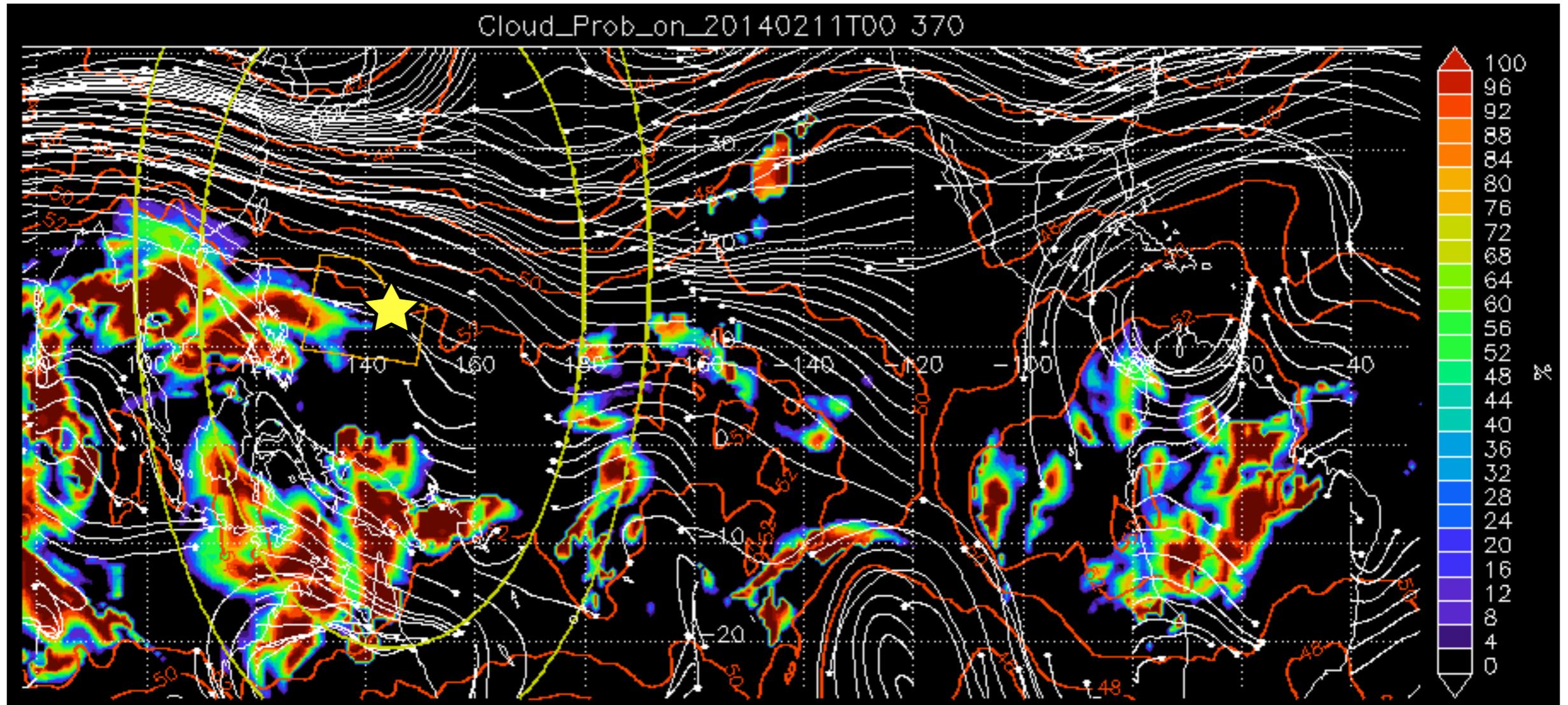
- convective precip (cld tops ≤ 50 kft) S-SW of Guam, gradually moves SW
- NW winds

‘Tue midflight’ condition (GEOS5):
 tropopause T & winds on 2014-02-11, 06UTC
 (02-11 Tue, 04PM)



- cold tropopause Ts SW of Guam, colocated w/convection

‘Tue midflight’ condition (trajectory model):
(in situ) cloud probability on 2014-02-11, 00UTC
(02-11 Tue, 10AM)



- in-situ cloud formation predicted E of Guam
- parcels from convective outflow reach S of Guam (3-8N, 140-145E) in 2-4 days