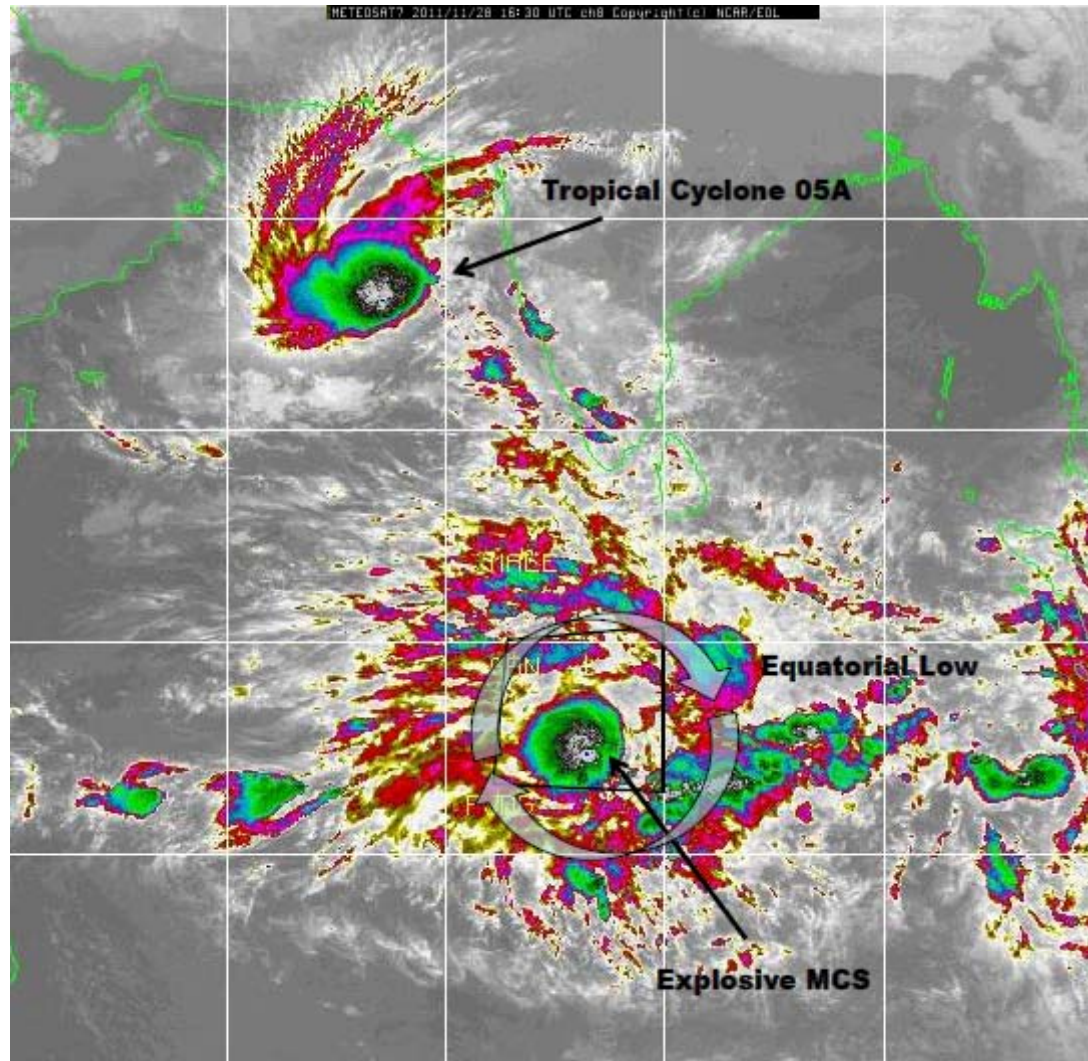


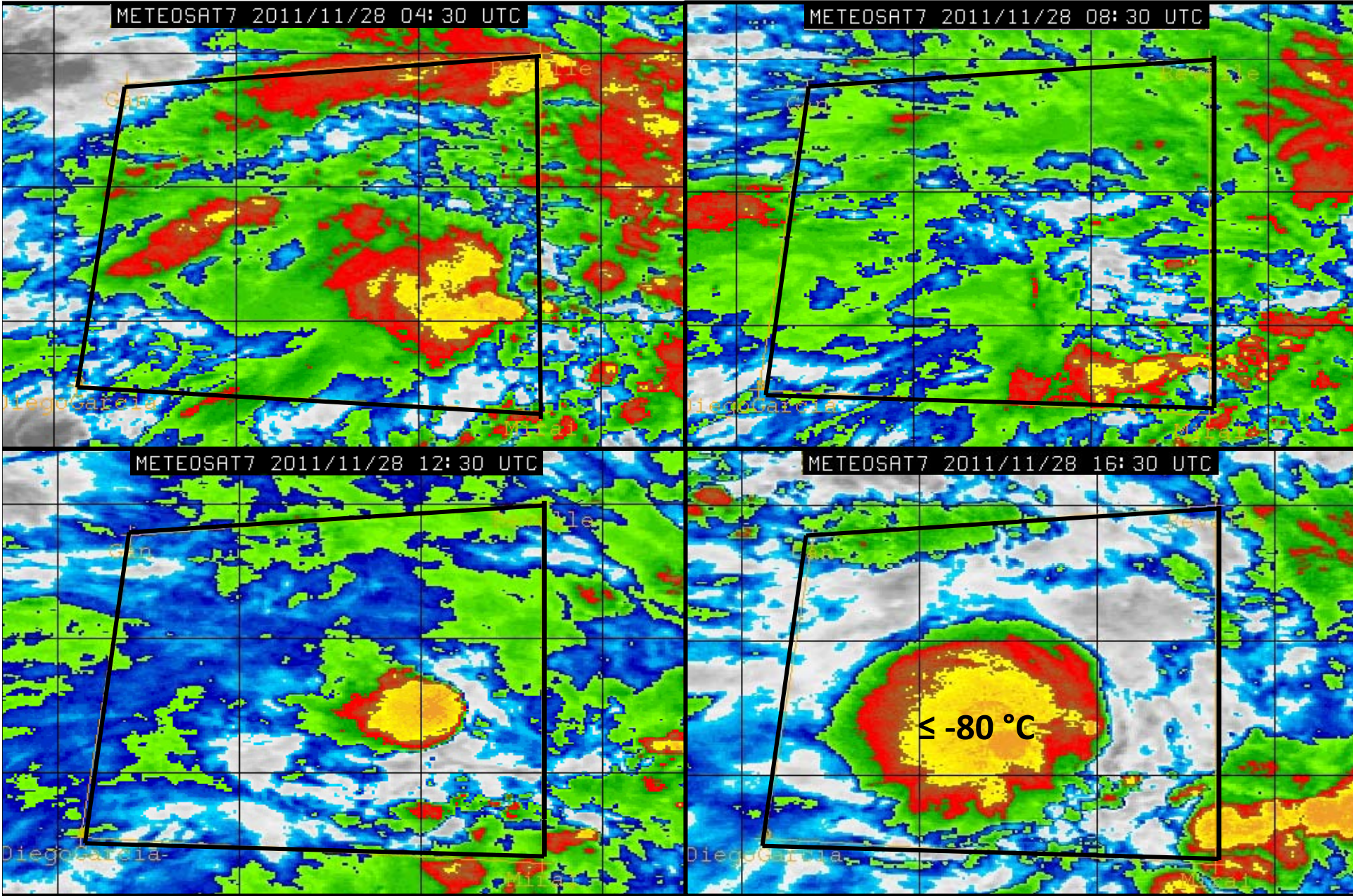
A Mysterious Convective “Explosion” and an Equatorial Low Pressure System During DYNAMO MJO2

Falko Judt and Shuyi S. Chen

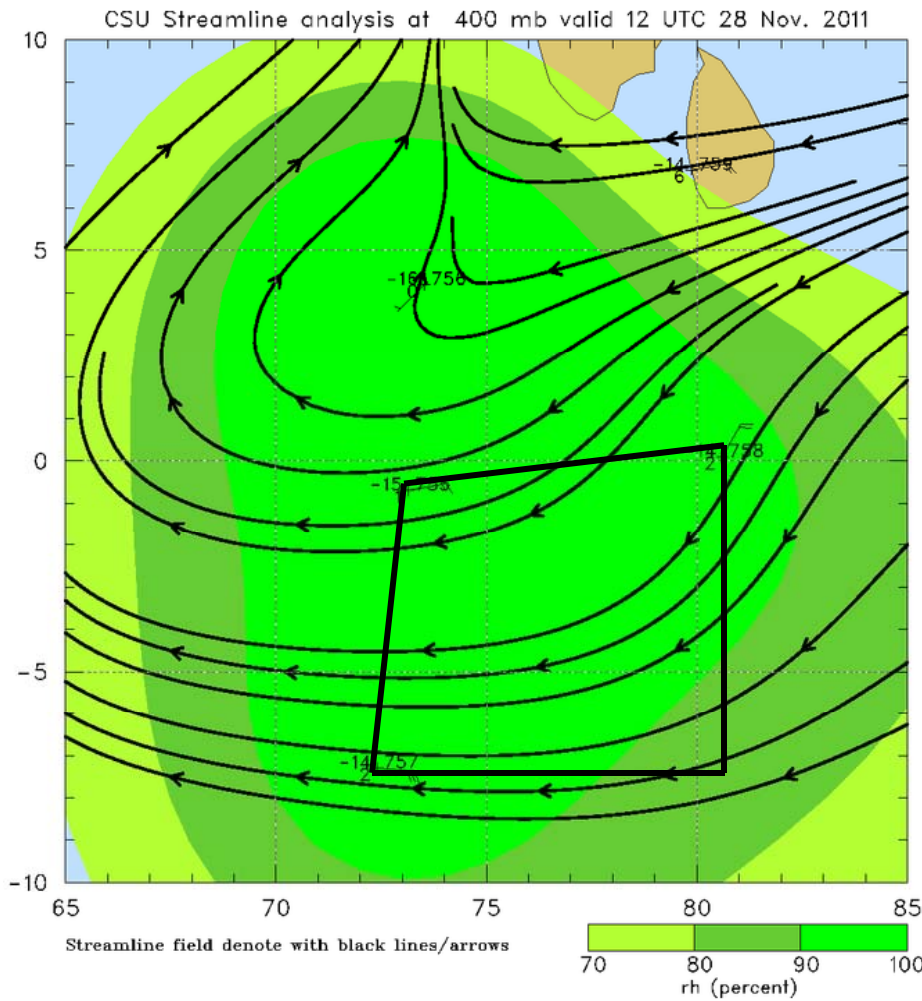


- Distinct explosive signature of this magnitude has only been observed **once** during DYNAMO
- Prime example to study convective systems forced/modulated by synoptic scale features during MJO initiation

16h Sequence of Meteosat IR Images



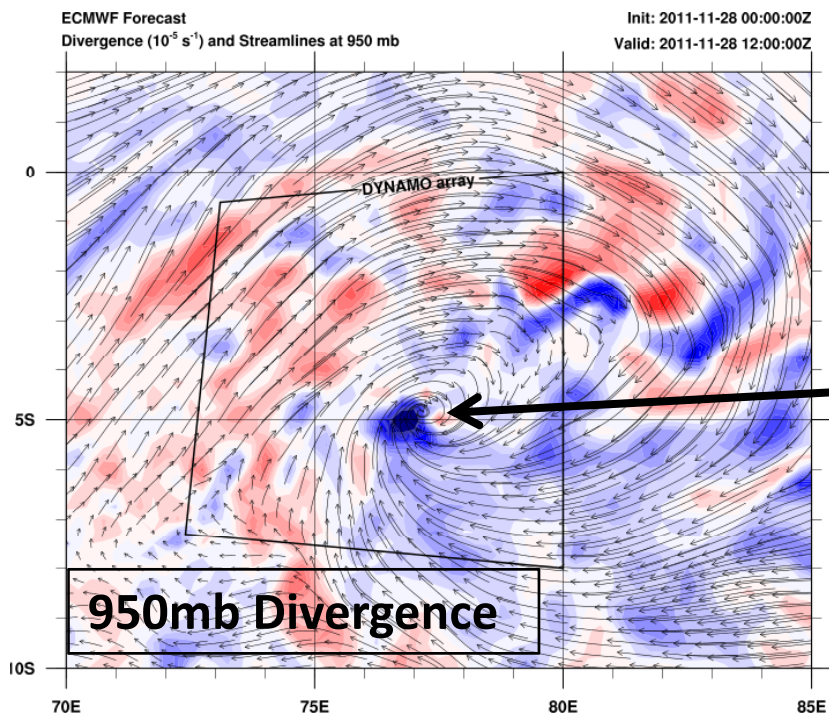
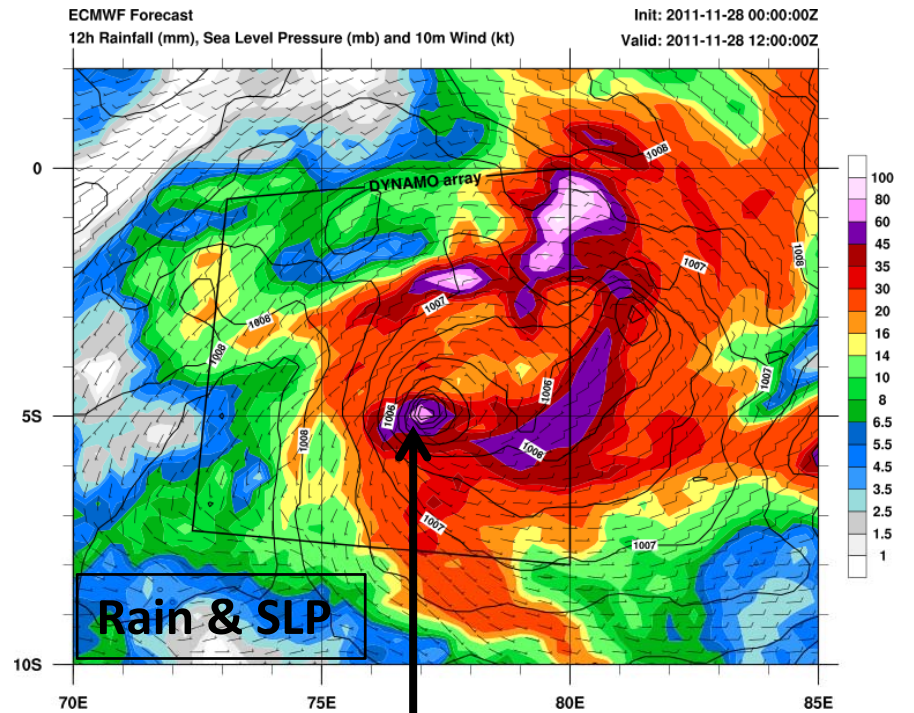
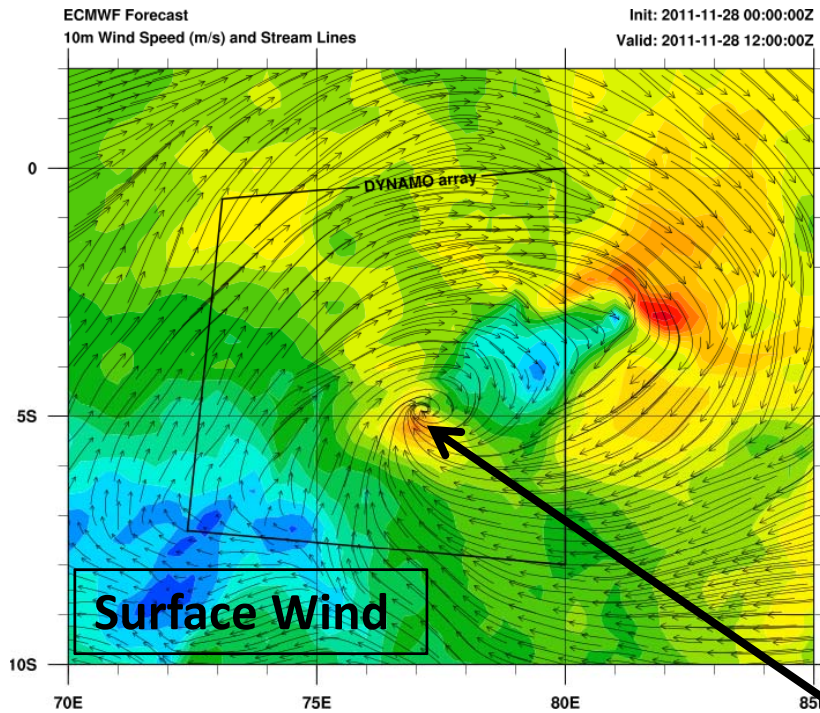
Vertical/Horizontal Structure of Equ. Low Pressure System



low tilted westward
and its circulation
decayed with
height

flow transitioned to
easterlies above
~400 mb

CSU Stream Line Analyses
from DYNAMO Soundings



12h ECMWF Forecast captured "Explosion" embedded in Equ. Low

