

AIR -0.41

Med_w

Med p

AIR : All-India rainfall

N34 : Niño 3.4 SST anomaly

-0.38 0.39

0.31 -0.18 -0.61

Med_w : 500hPa descent, [35-45N,0-30E] : NCEP/NCAR Reanalysis

Med_p : Mediterranean precipitation, [35-45N,0-30E] : Hulme et al (1998) A correlation of 0.31 is significant at the 95% level.

0.39 -0.18

-0.61

ietstream was split by a blocking anticyclone.

· A strong Atlantic ridge and European trough within the wave packet

steered a weather system from the UK into the Mediterranean, where it developed strongly and moved north-east over central Europe.

. This system was more characteristic of a winter storm. It brought over

after a similar but more zonally propagating weather system

150mm to large parts of central Europe on 11-13th August, only a week

Niño 3.4 sea surface temperature is correlated with both

· Mediterranean descent is well correlated with (lack of)

However Indian rainfall is not significantly correlated with

Mediterranean (or central European) rainfall

suggestive of an El Niño impact on the monsoon

in-situ rainfall.

with less than half the normal all-India rainfall.

This was the worst monsoon drought for three decades (since 1972).

 Was the developing El Niño a factor in both these years? There is a known anticorrelation between El Niño and Indian monsoon rainfall (Parthasarathy et al, 1991, J. Climate).

Data and images courtesy of K. Rupa Kumar & J.V. Revadekar

Aun 10 20 20 Ad 10 20 28 Aun 5 19 29 Sep 5 18