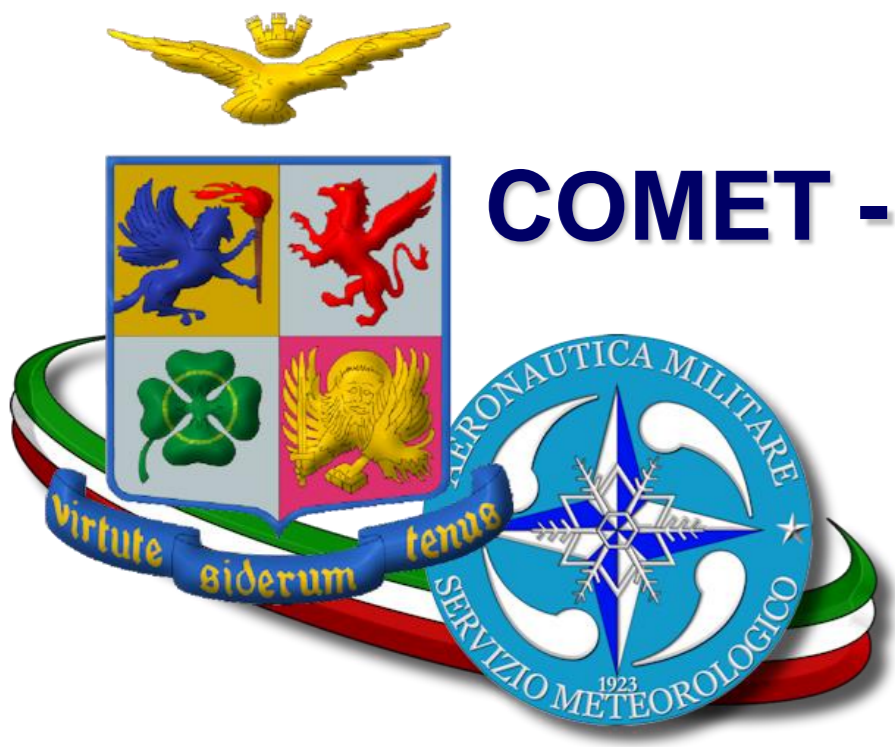


The Italian Air Force Met. Service NWP system

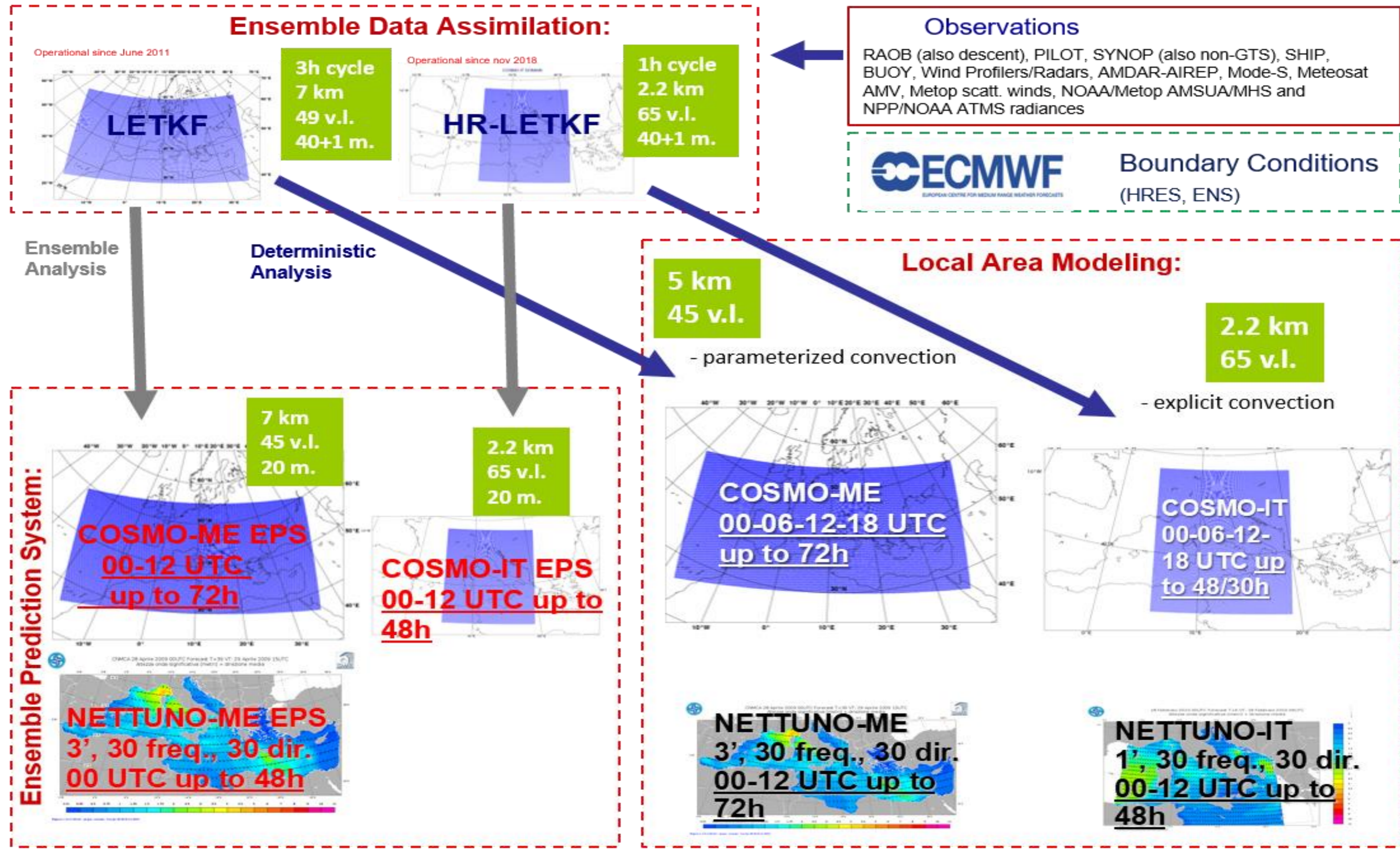
COMET - Italian Air Force Operational Center for Meteorology, Pratica di Mare, Rome - Italy

Francesca Marcucci, Lucio Torrissi, Marco Alemanno, Emanuele Regoli

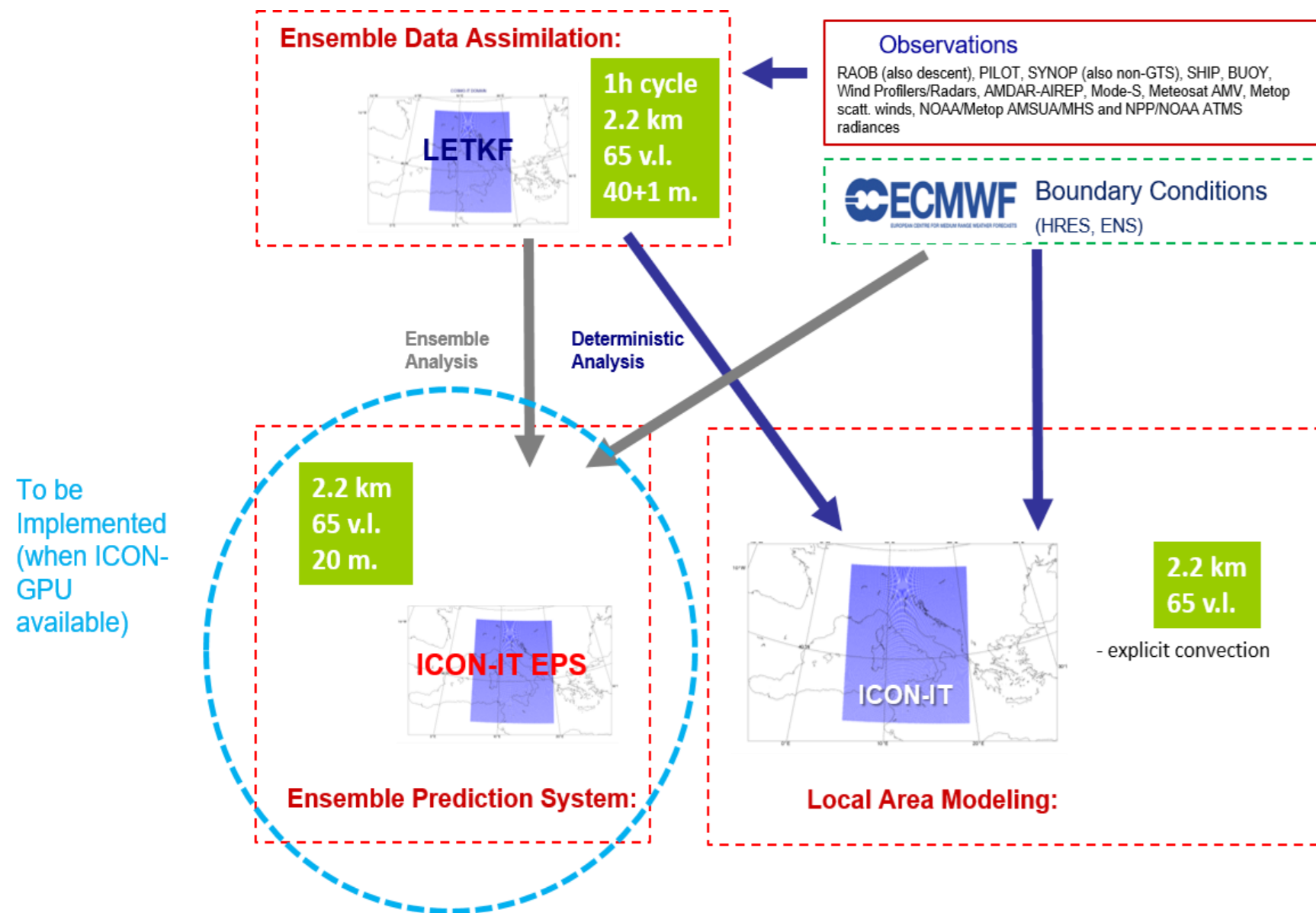
francesca.marcucci@aeronautica.difesa.it, lucio.torrissi@aeronautica.difesa.it, marco.alemanno@aeronautica.difesa.it, emanuele.regoli@aeronautica.difesa.it



OPERATIONAL CONFIGURATION



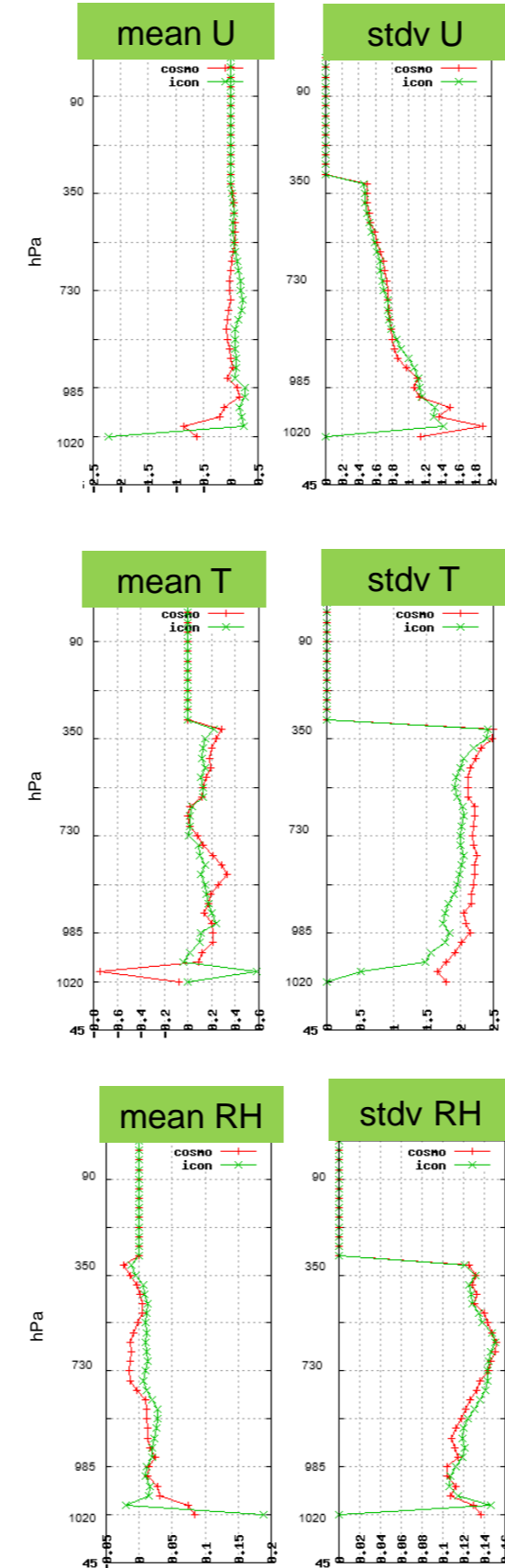
PRE- OPERATIONAL SUITE



The objective verifications show that ICON-IT generally outperforms COSMO-IT except for a larger bias on upper level wind speed and a larger rmse on pmsl (not shown)

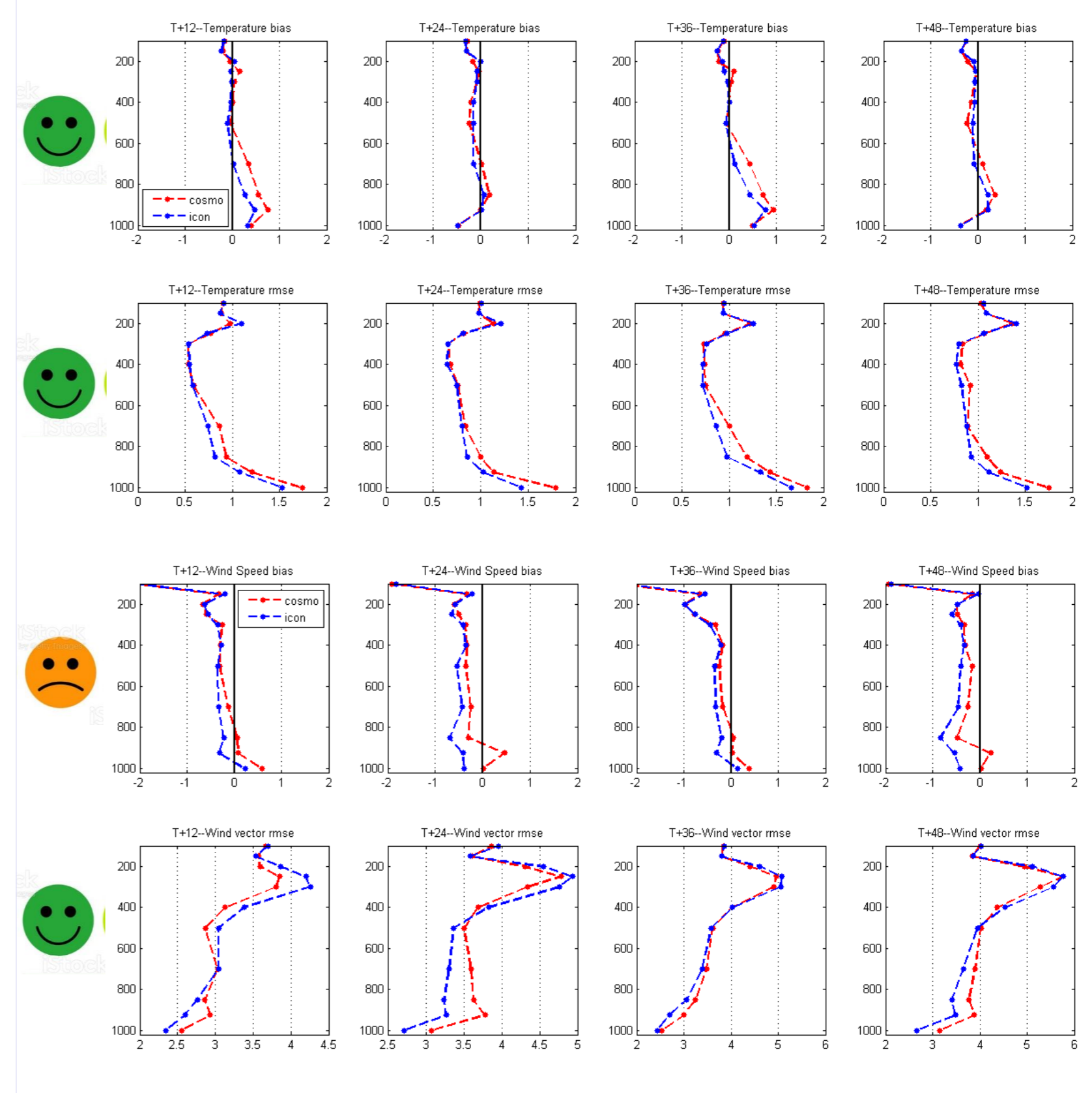
Obs Increments Statistics

1° may - 25° aug 2020



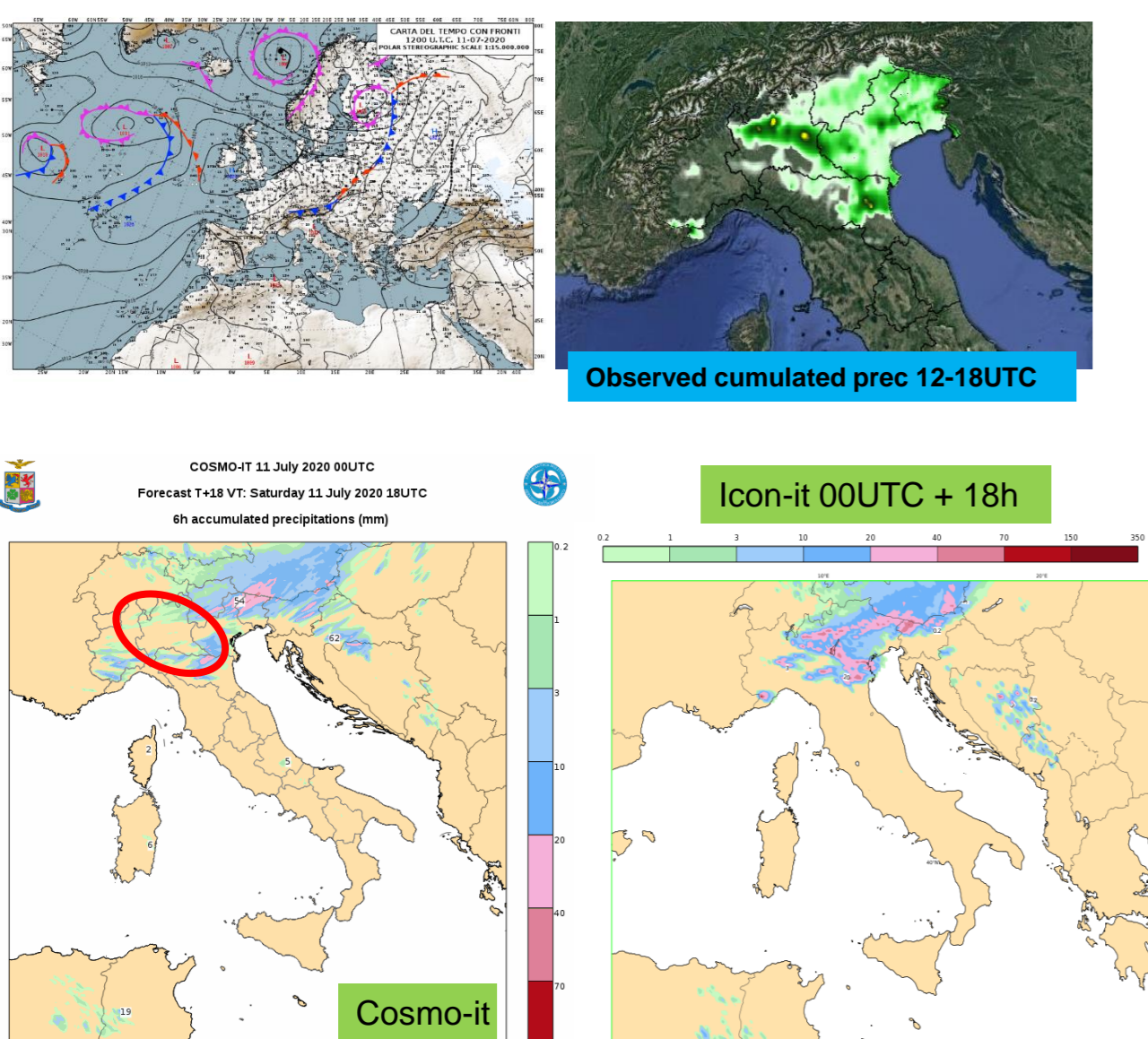
FORECAST VERIFICATION AGAINST RADIOSOUNDES

period 1° may - 25° august 2020



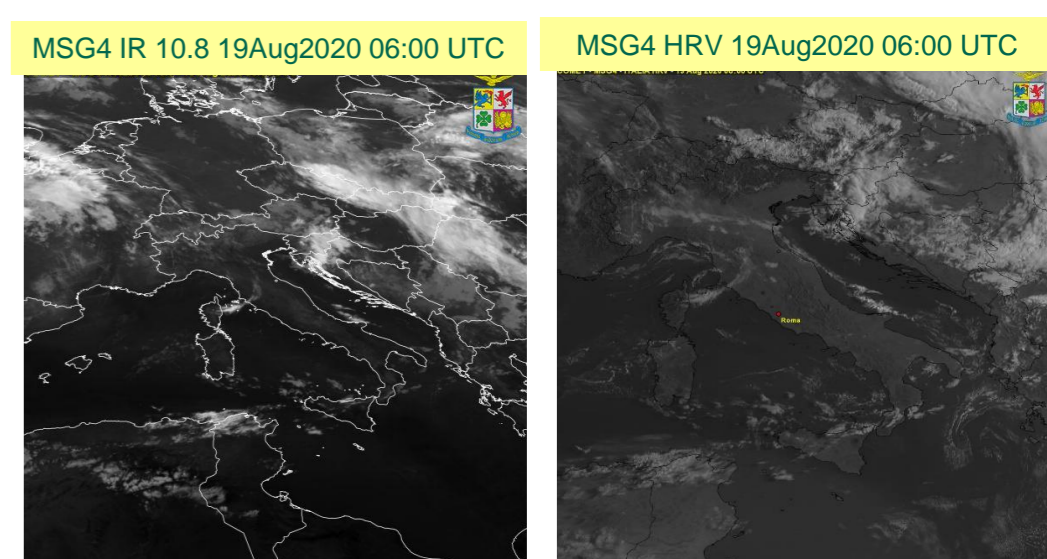
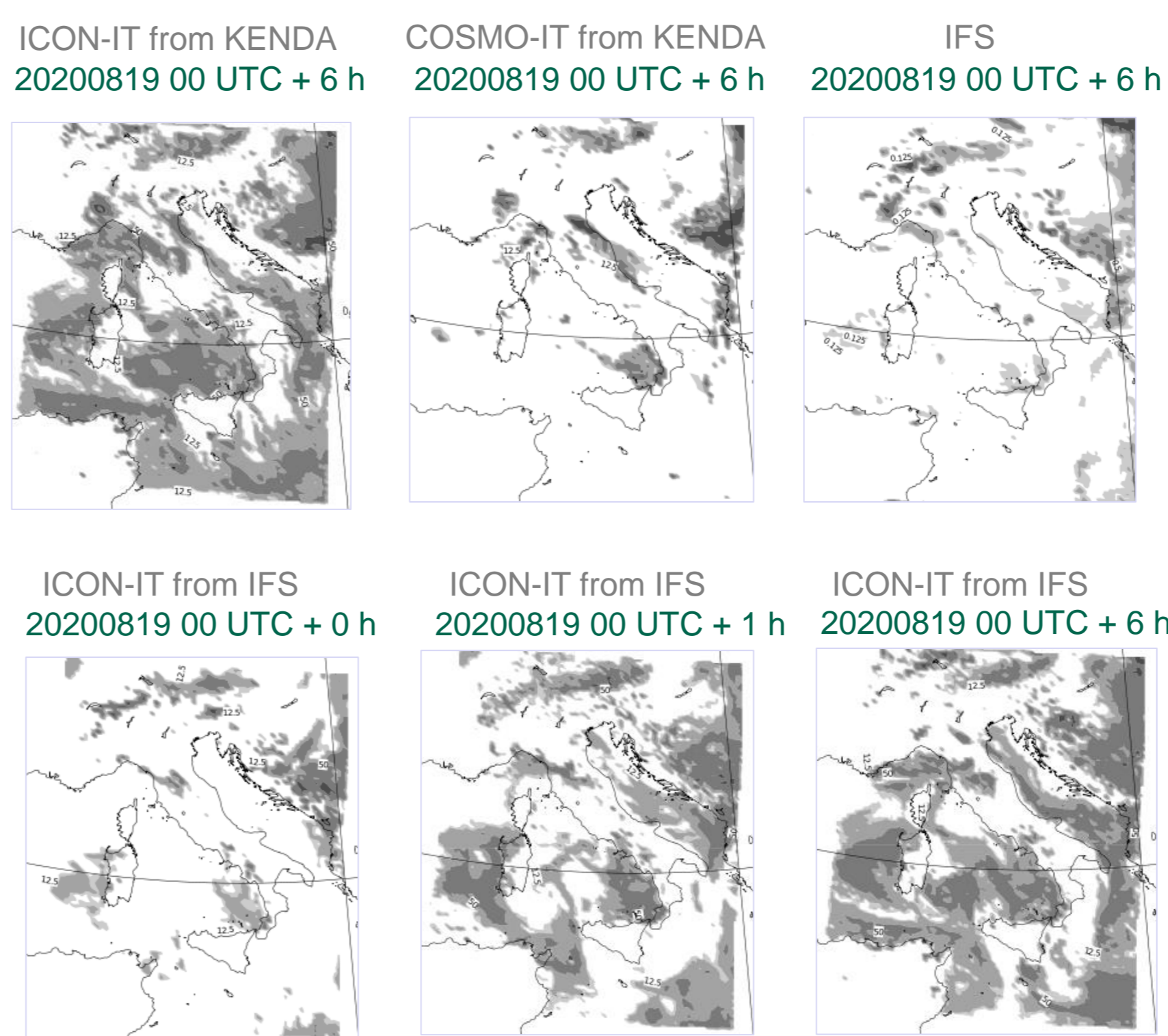
RECENT CASE STUDY

Squall line over «Brianza» 11 jul 2020



Fcst products are daily provided (00,12UTC) to our operational forecast room. Forecasters are quite satisfied with ICON model performances (as shown in the pictures below), even if even if they collected also cases of summer isolated convection initiation failure

ICON LOW CLOUDS OVERESTIMATION



The ICON model seems to overestimate the low cloud coverage (medium and high cloud coverage is comparable to the one forecasted by COSMO-IT - not shown). Even if initialized by IFS, the low cloud starts to grow rapidly after 1h forecast. This behaviour has been reported for many days from our forecasters, mainly over sea.