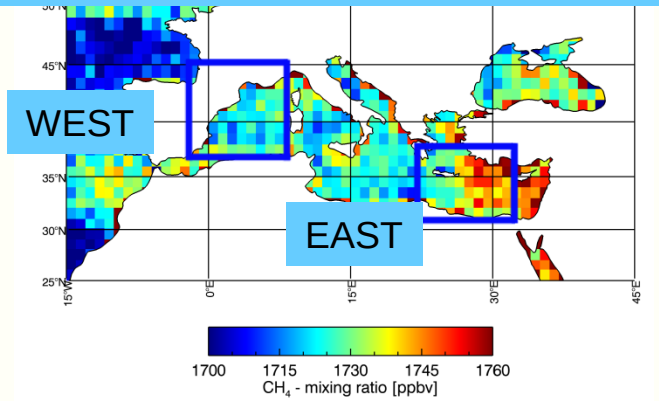
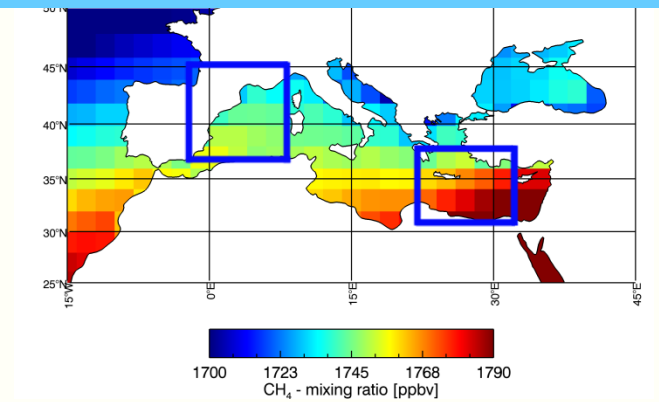
CHEMICAL CLIMATE EVOLUTION ABOVE THE MEDITERRANEAN BASIN IN THE MID TO UPPER TROPOSPHERE by Ricaud et al.

1. IMPACT OF THE ASIAN MONSOON ANTICYCLONE ON THE VARIABILITY OF CH_4 ABOVE THE MEDITERRANEAN BASIN

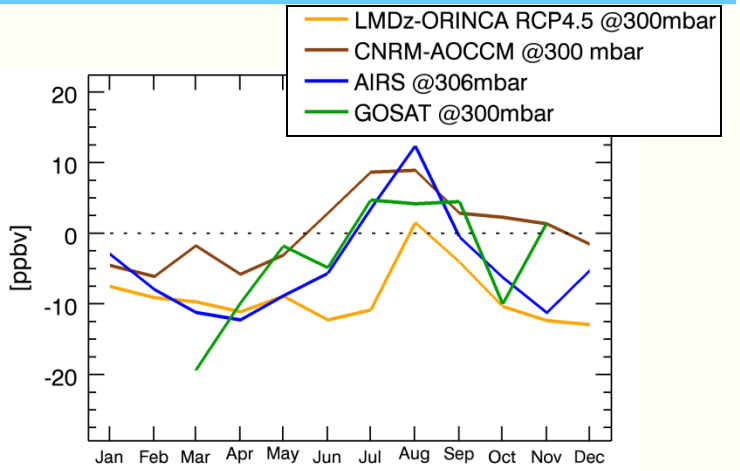
Spaceborne IASI mid-tropospheric CH_4 in summer

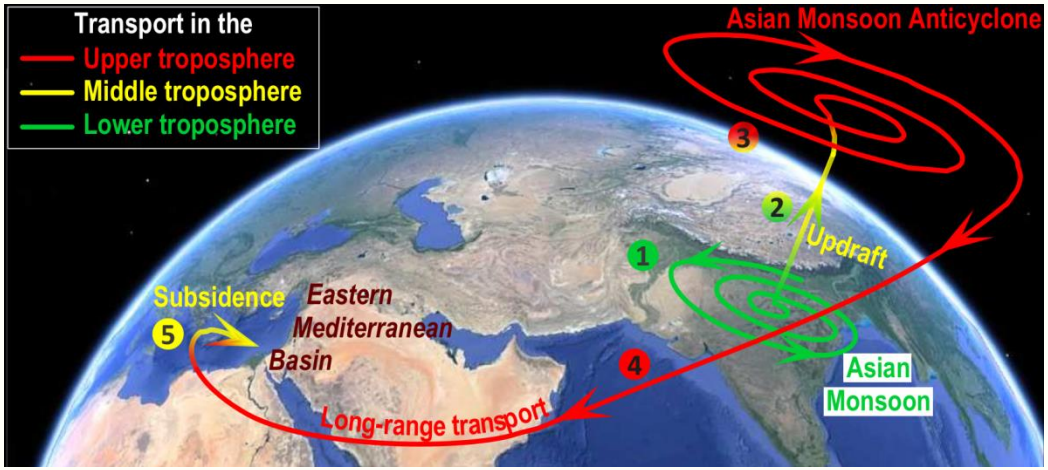


Modelled MOCAGE mid-tropospheric CH_4 in summer

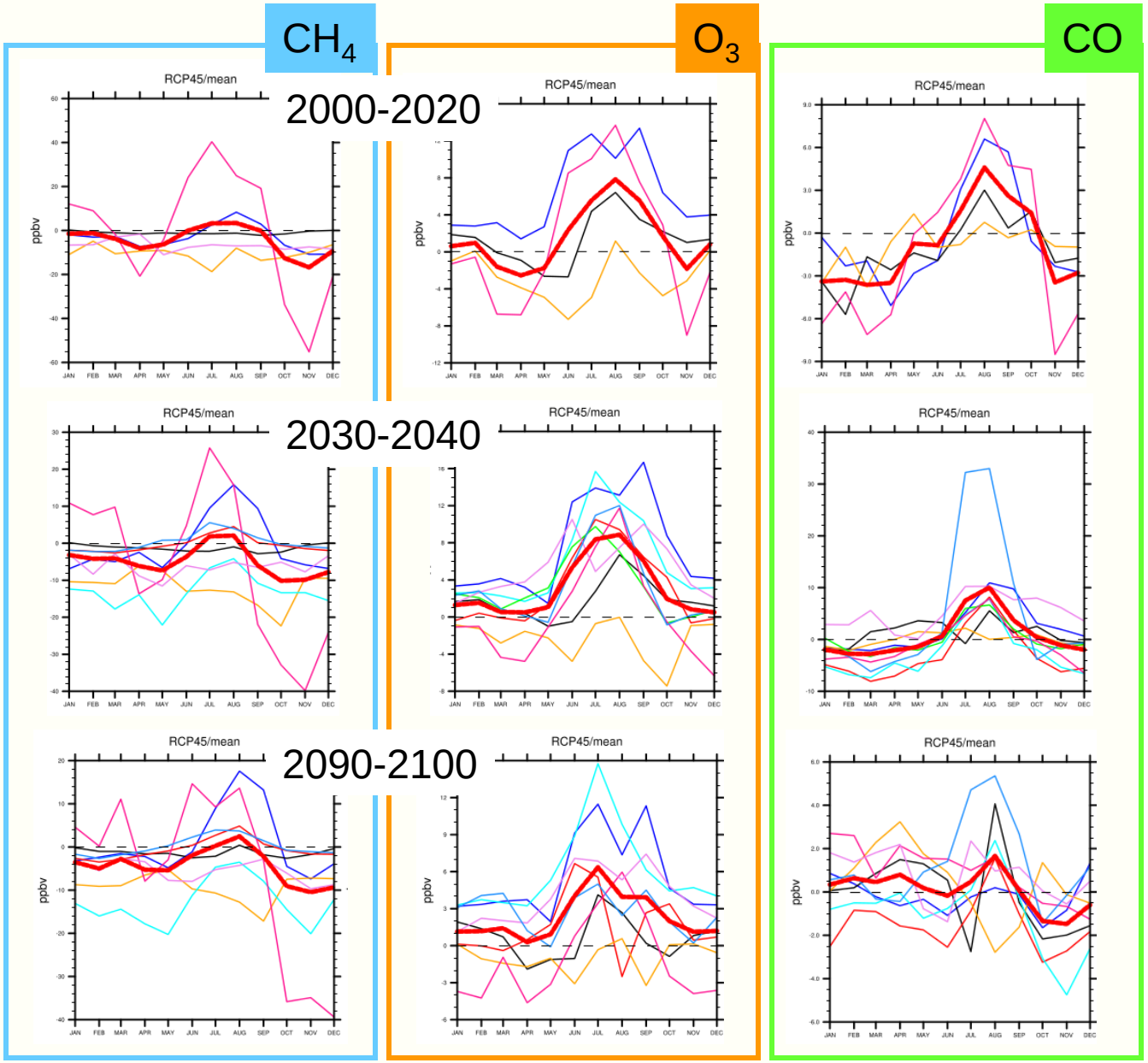


Seasonal Variation of the East-West Difference in CH_4 at 300 hPa





2. CHEMICAL CLIMATE EVOLUTION ABOVE THE MEDITERRANEAN BASIN



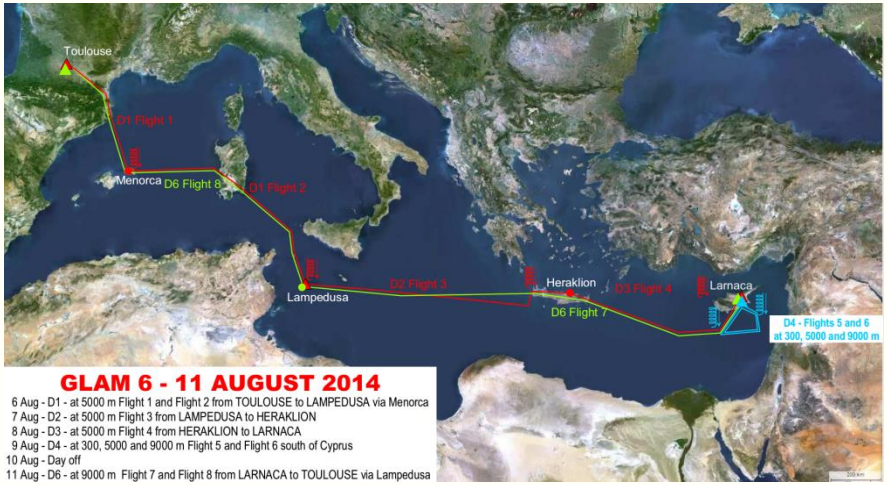
500 hPa

ACC-MIP models

LMDz
AM3
CMAM
E2R
EMAC
UEDI
NIWA
NIES
CESM
JPL
MF
GEOSCCM
NCAR
OSLO
UKMO

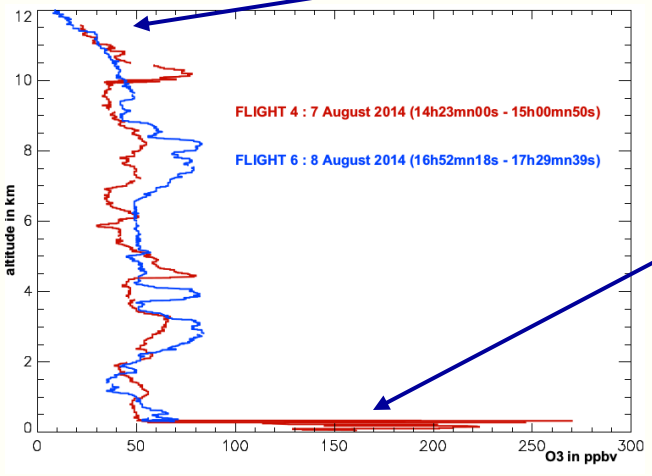
Mean

THE AIRBORNE GLAM CAMPAIGN by Ricaud et al.

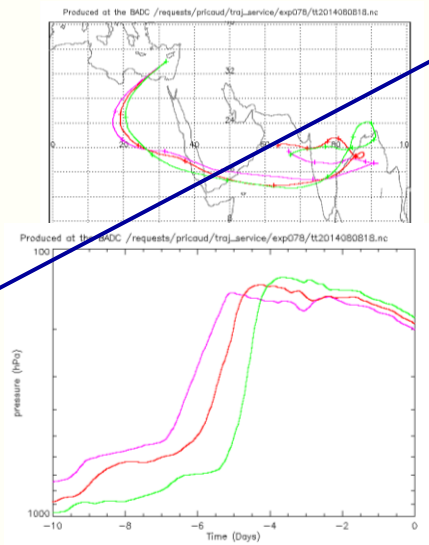


F-20	H_2O, O_3, NO, NOx, NH_3, aerosol concentration & size distribution (0.2-3 µm), temperature, upward/ downward SW and LW radiations
SPIRIT	CO, CH_4, N_2O, CO_2

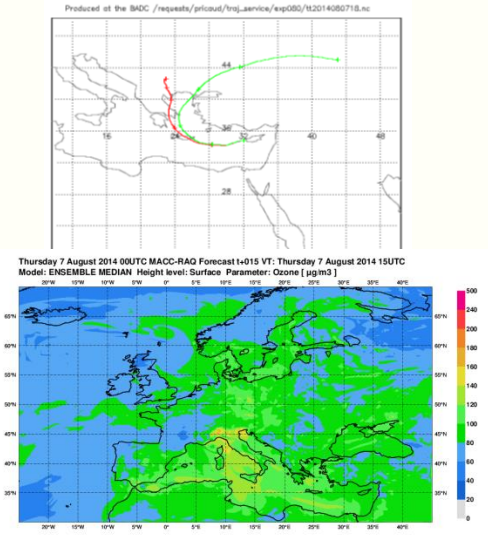
Ozone profiles



Ozone Minimum at 190 hPa

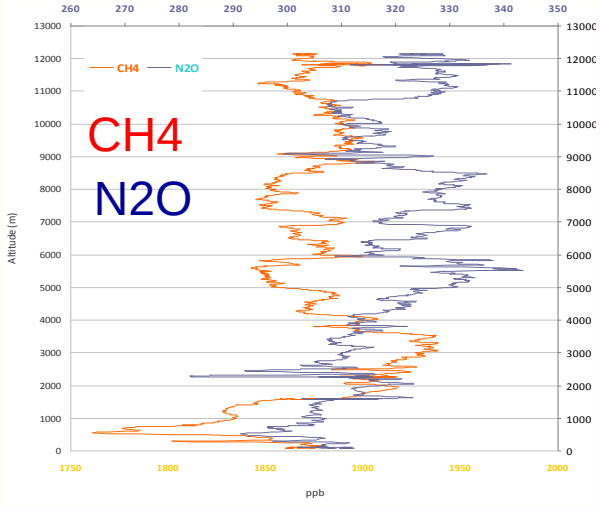


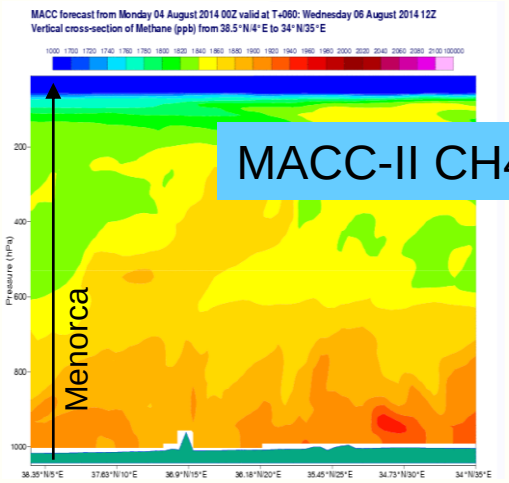
Ozone Maximum at 970 hPa



B) Greenhouse Gases

Menorca





C) Aerosols

Larnaca