

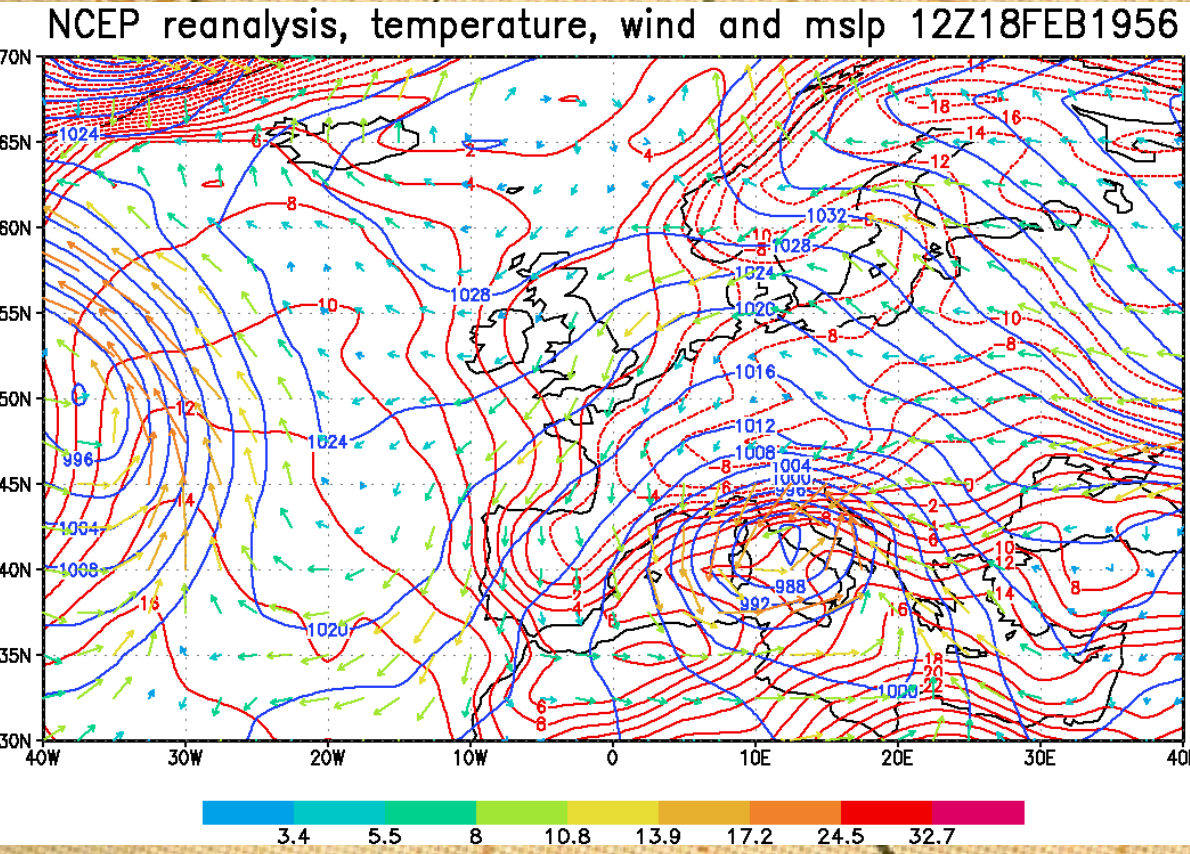
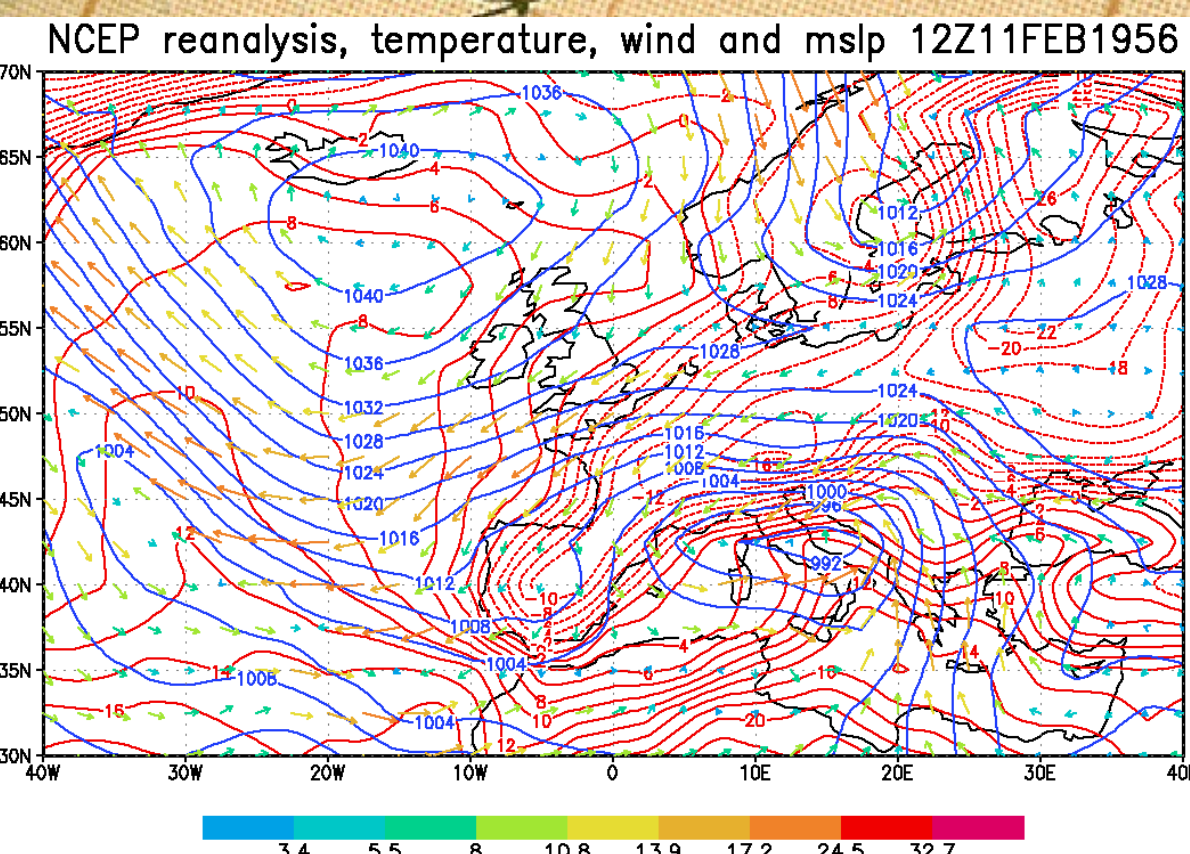
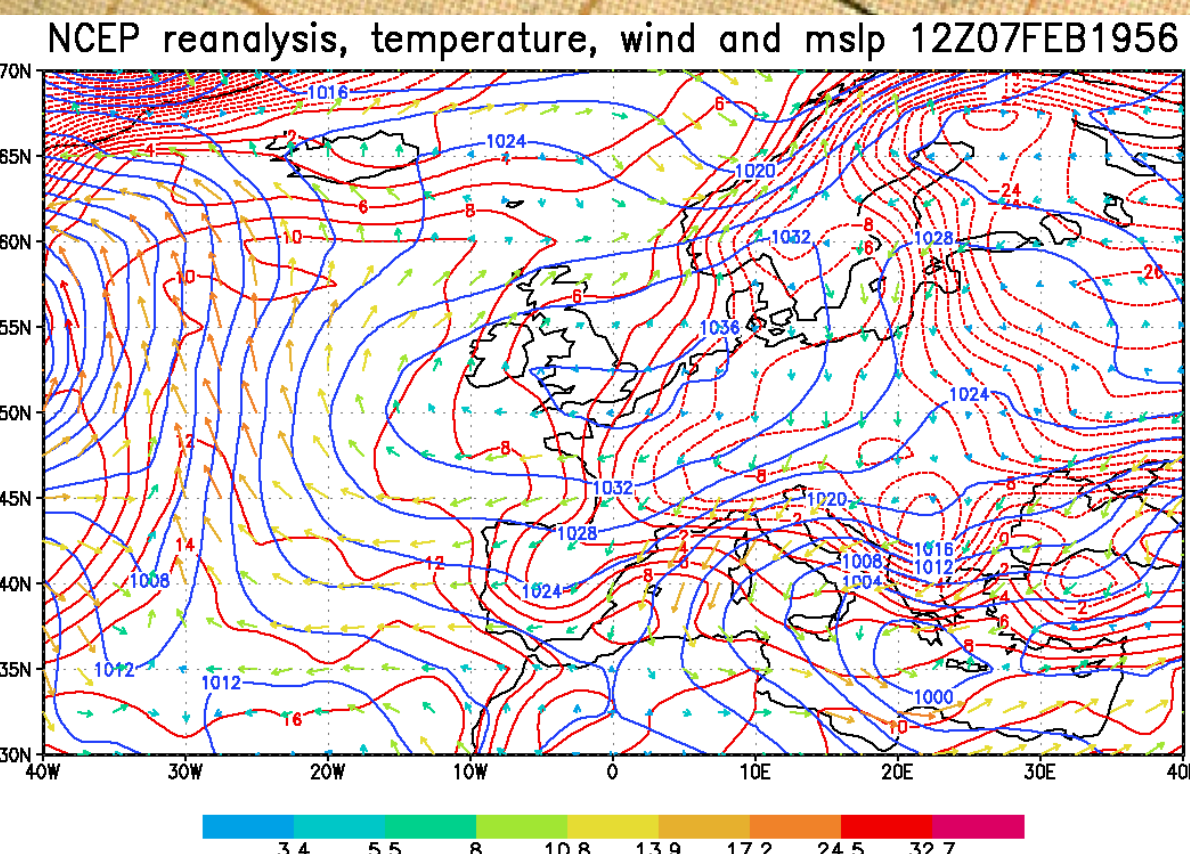
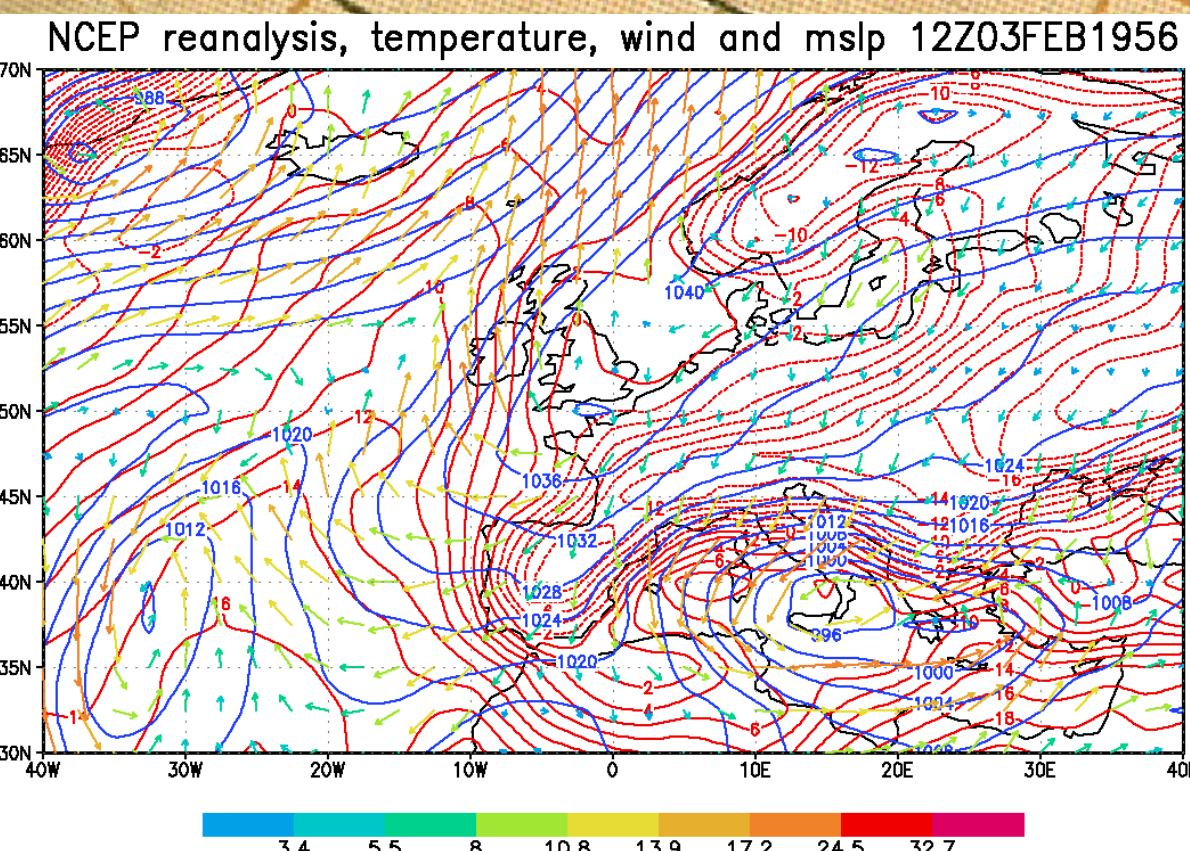
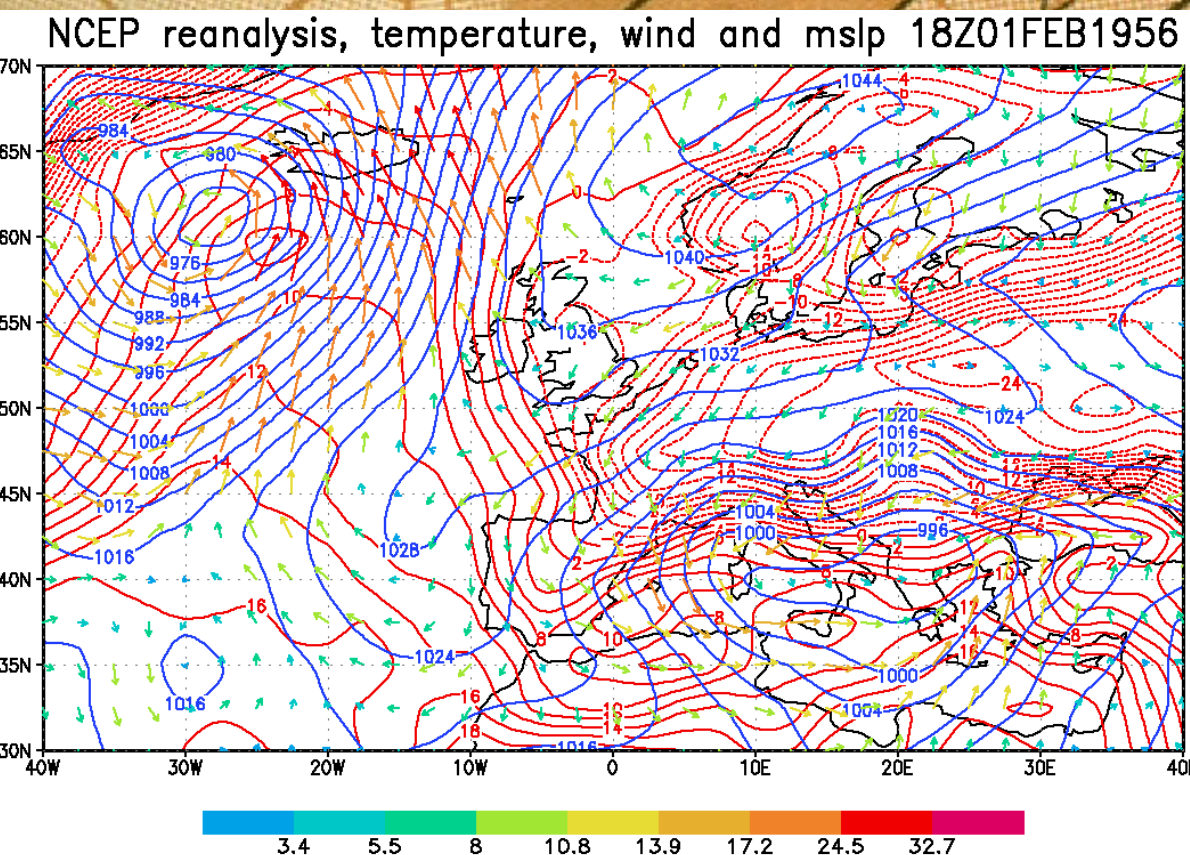
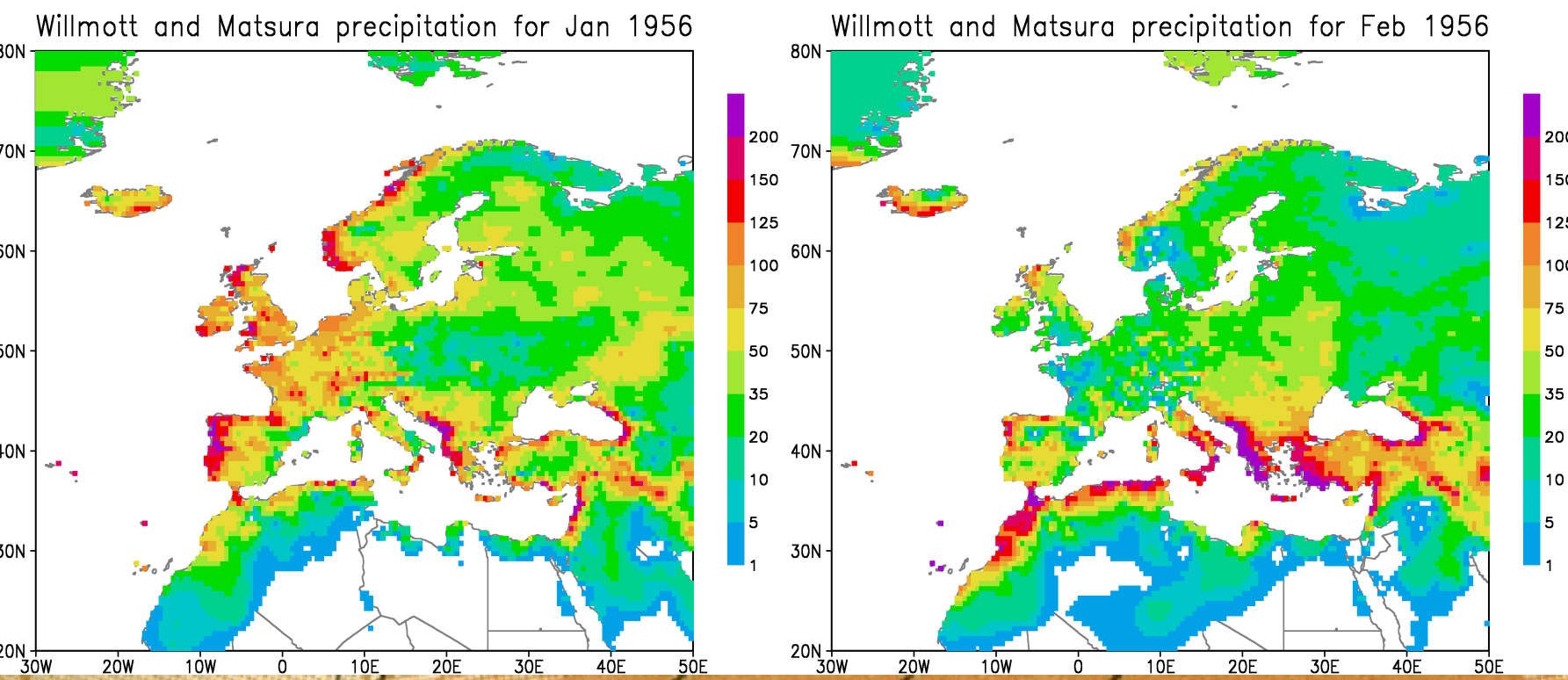
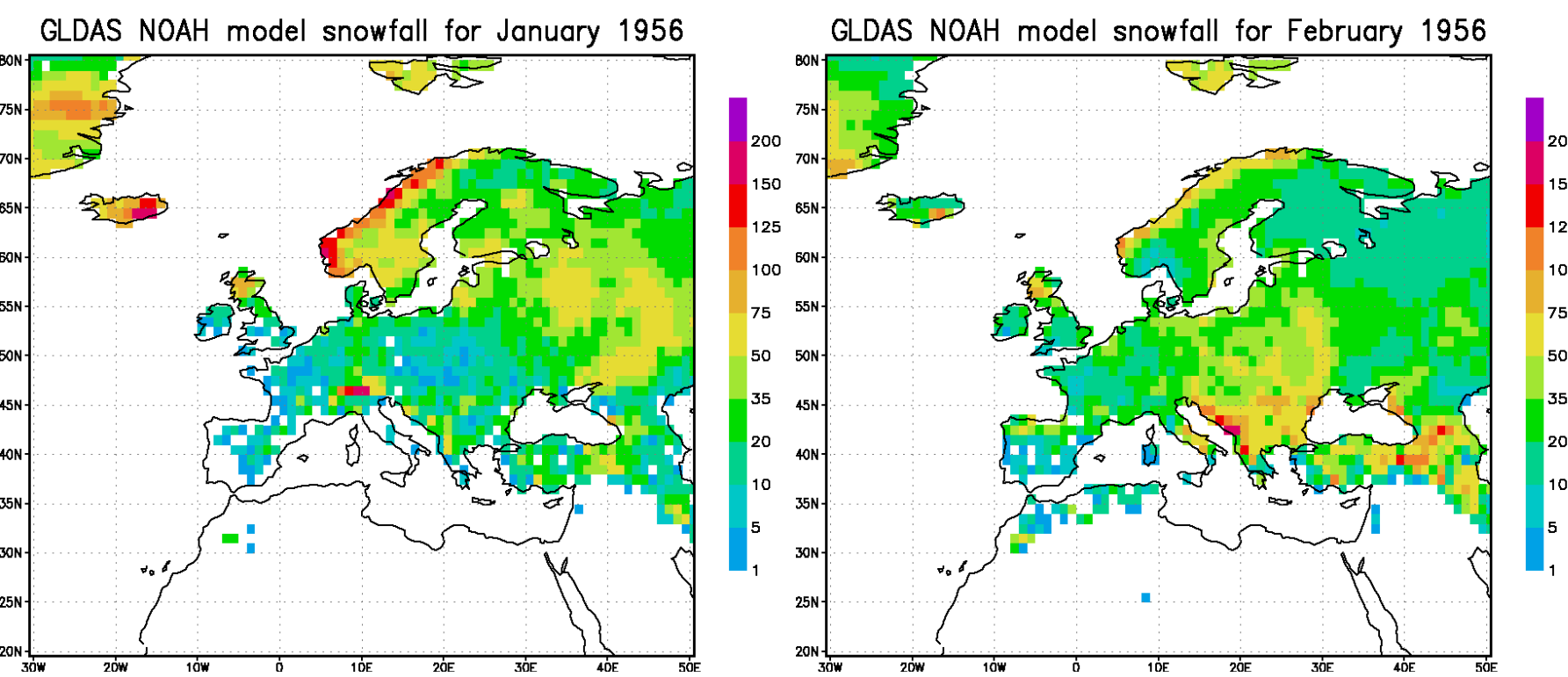
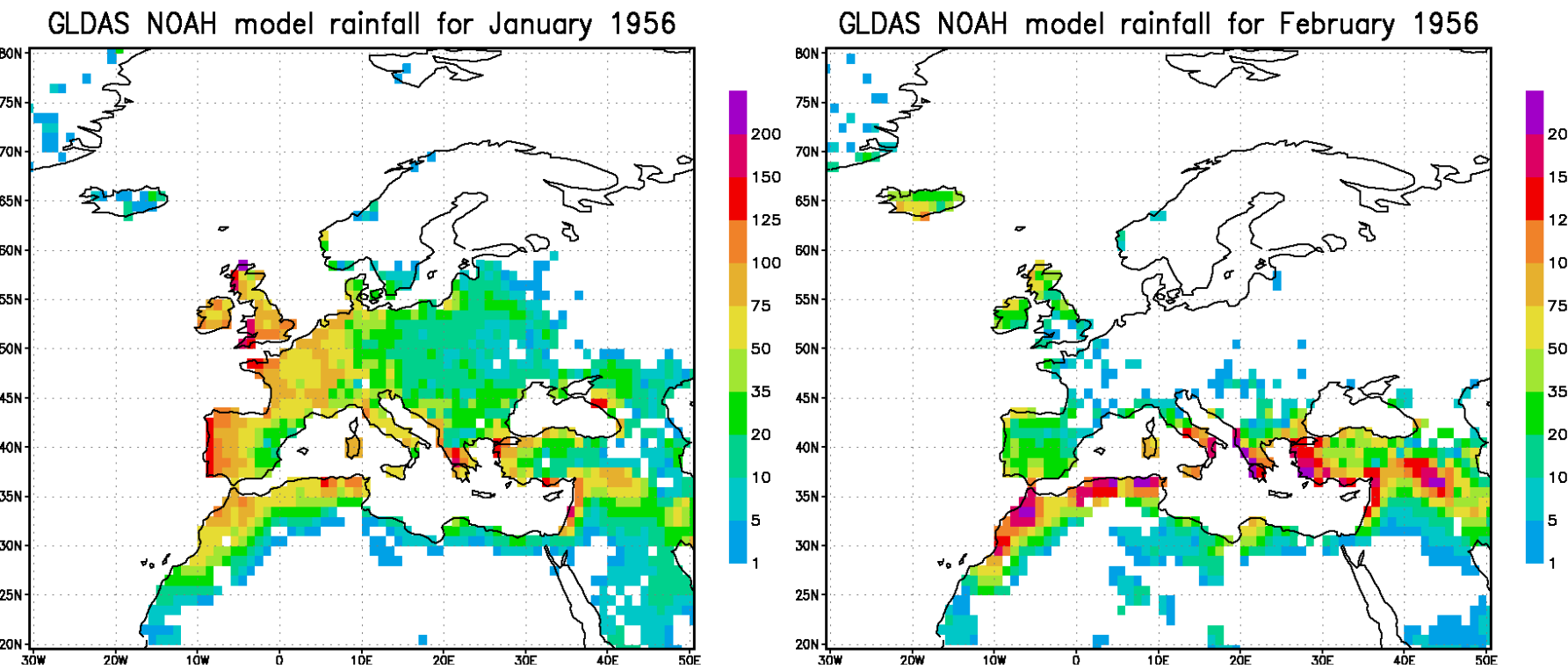
Winter 1956 in Croatia

Martina Tudor, Stjepan Ivatek-Šahdan and Alica Bajić, Croatian Meteorological and Hydrological Service

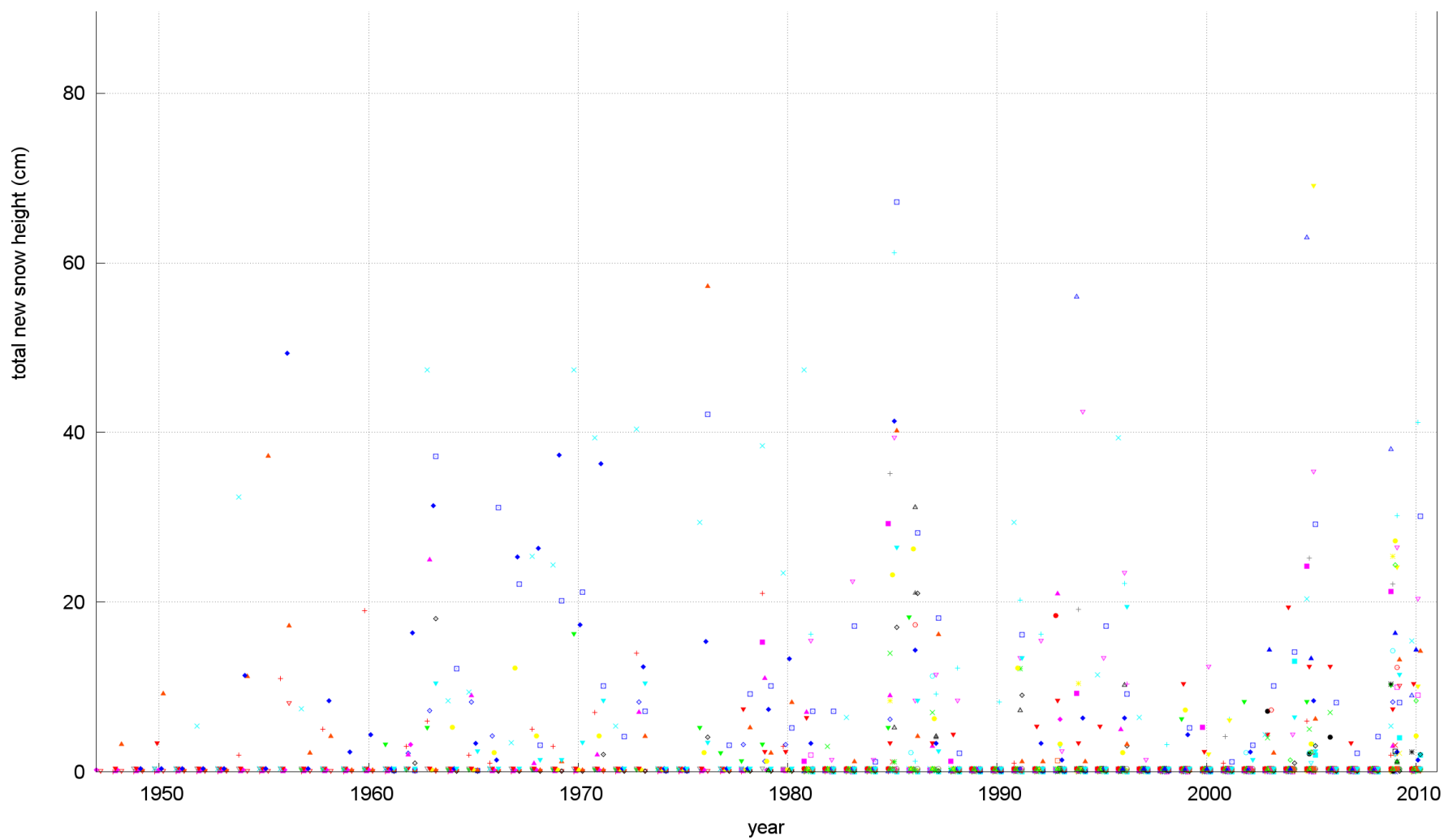
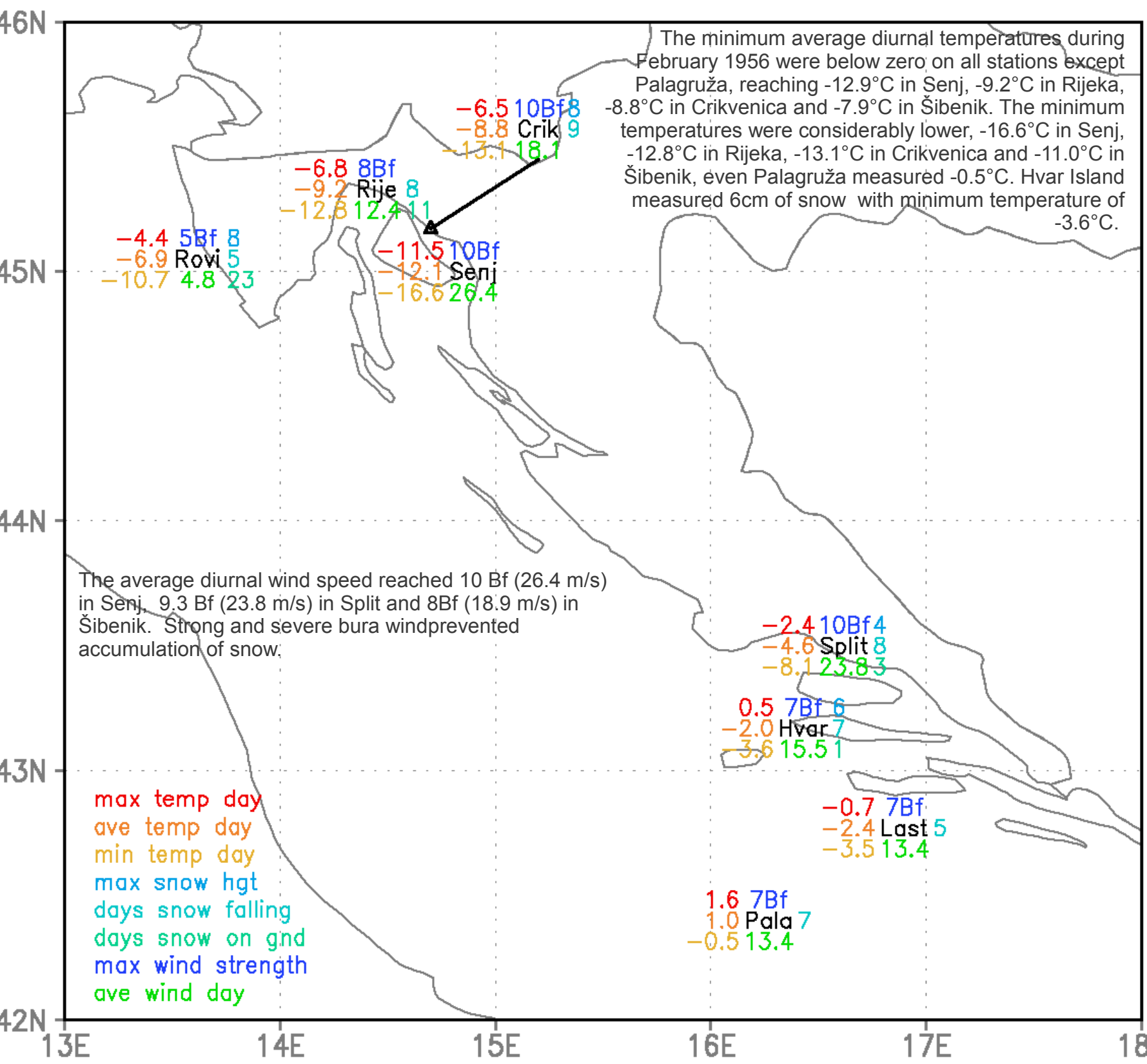
Introduction

Severe cold weather with a lot of snow and strong wind on Croatian coastline at the beginning of February 2012 inspired many to recollect the winter of 1956. The poster will present the weather events of winter 1956 described using the measured data from the meteorological stations, NCEP re-analysis fields, Willmott and Mitsura precipitation and GLDAS NOAH model output as available from NASA through the Giovanni web interface.

Winter 1956 is listed as one of the exceptionally cold winters in Europe in 20th century. It was cold across Europe, the channels were frozen as far south as Toulouse. The winter Olympics in Cortina d'Ampezzo (26th Jan to 5th Feb) suffered lack of snow at the alpine skiing events so Italian army transported large amounts of snow to cover the events.

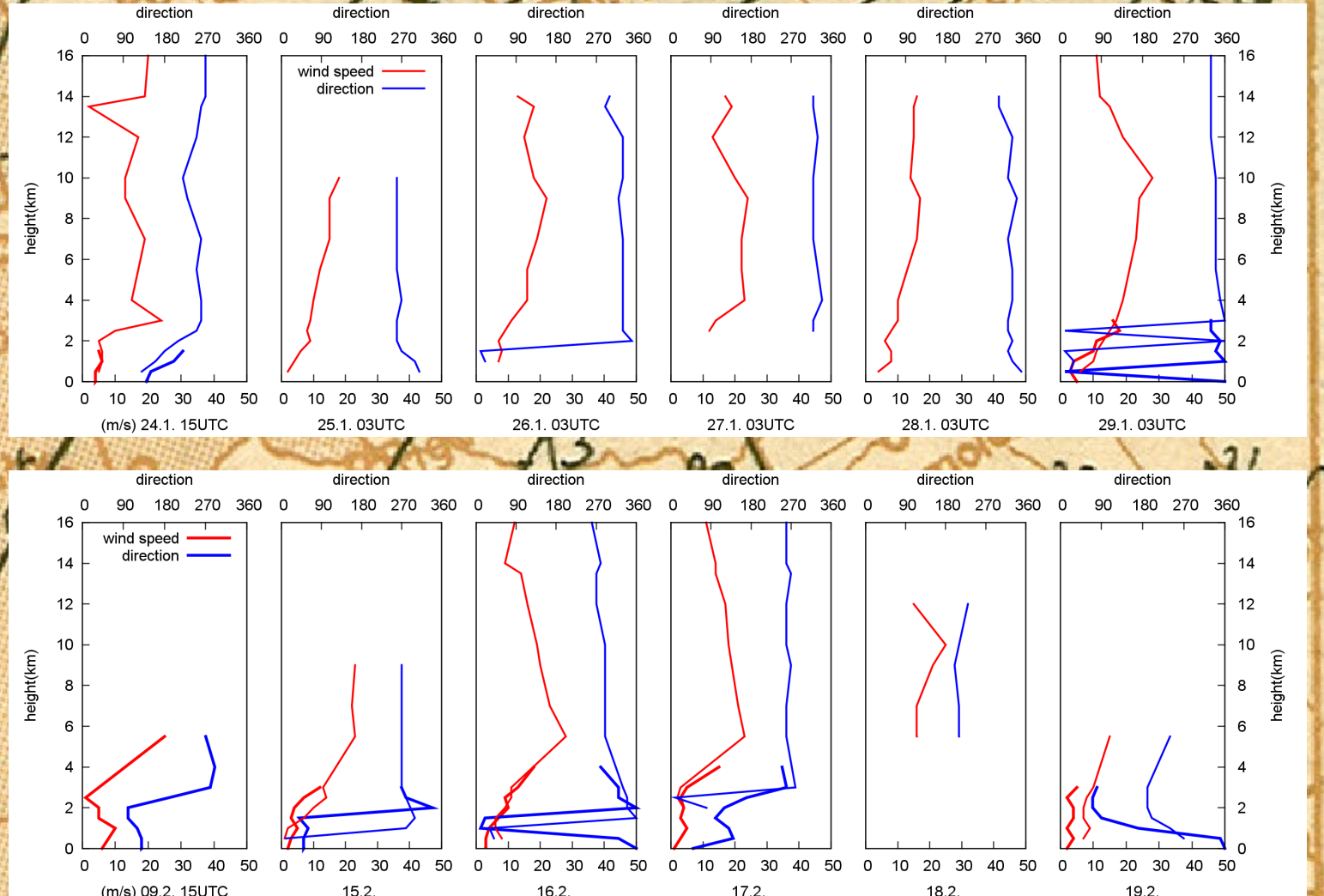
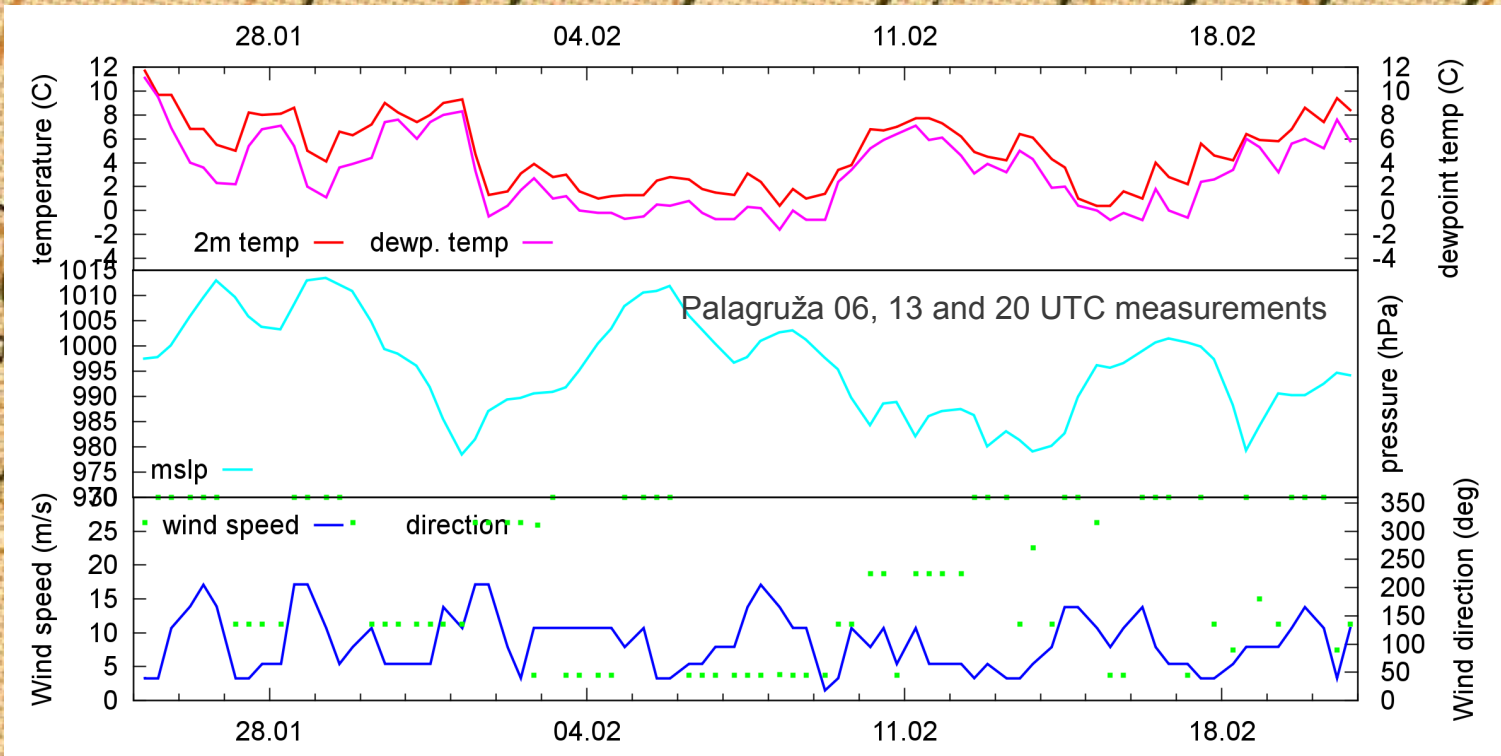
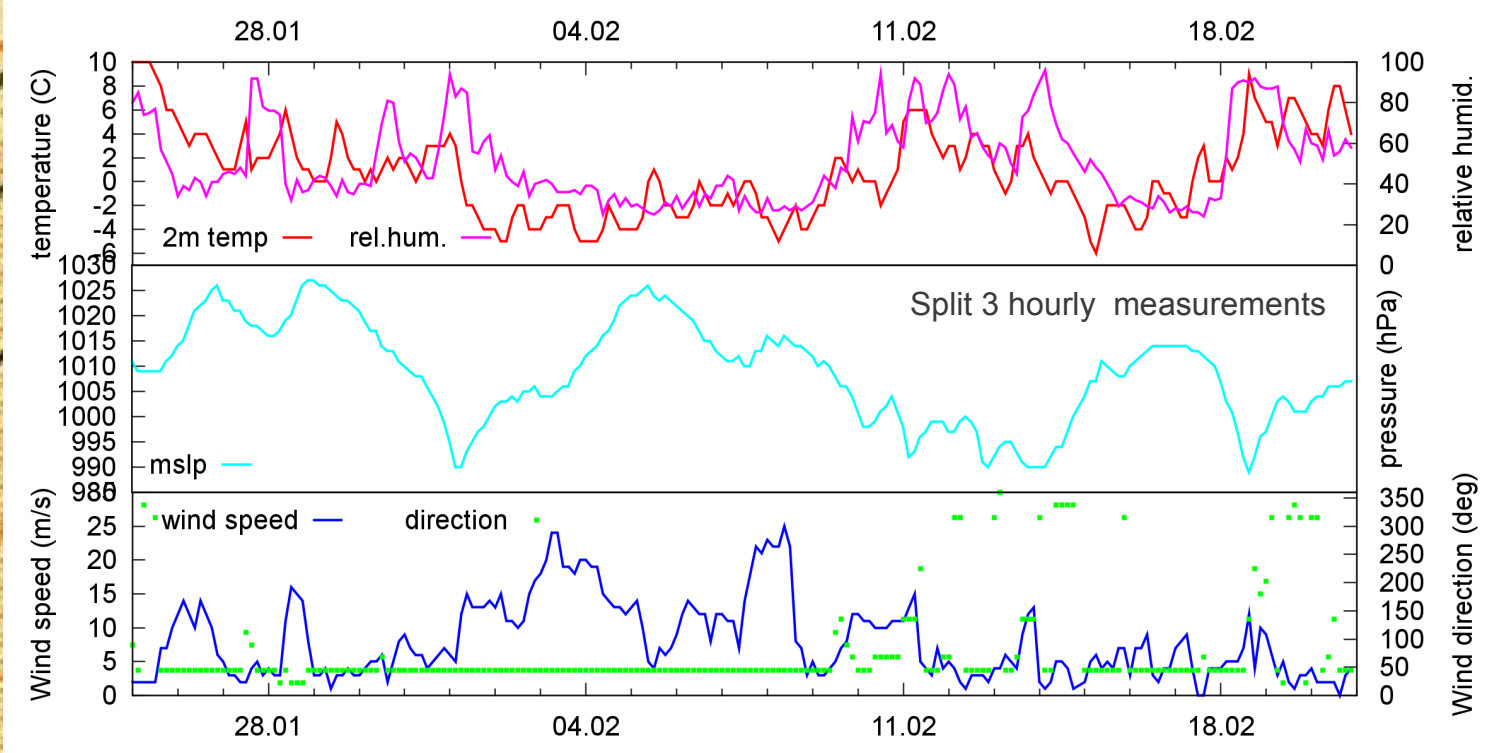
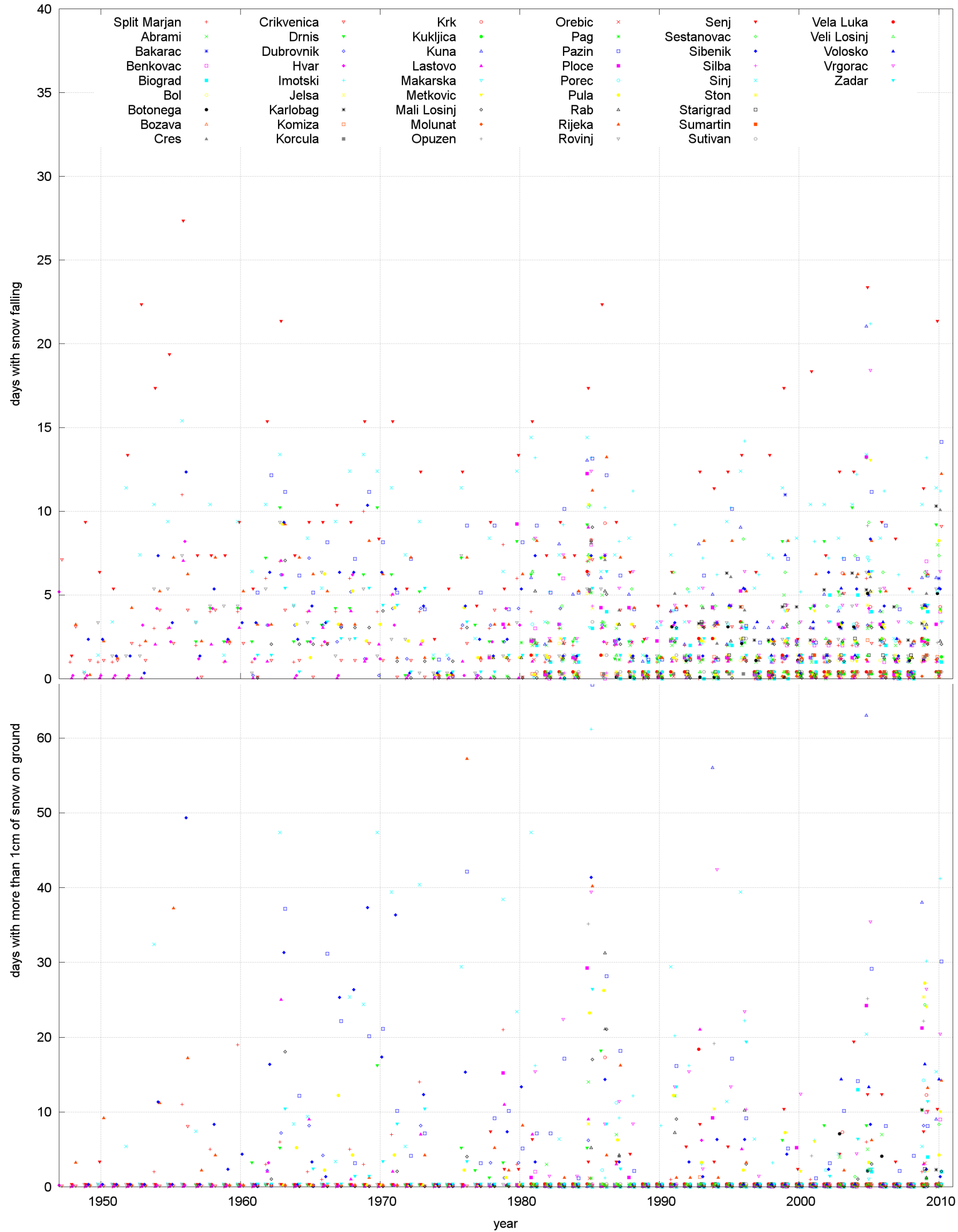


Temperatures, snow & wind during February 1956



Snow “climatology” 1947-2010

The occurrence of snow falling is not exceptionally rare on the eastern Adriatic coast. The figures below show the number of days with observed snow and snow layer on ground for the Croatian stations on the coast and on islands. The figure in lower left shows total amount precipitated as snow during a given year. Accumulation of snow on ground is prevented by warm temperatures and/or strong wind.



Plots show theodolite (thick line) and radiosonde (thin line) measurements of wind profiles from Split (Lazareva) station. During 1956, the vertical sounding measurements were operated along railways in Split, Zagreb and Belgrade and theodolite measurements were operated at Maribor, Ljubljana, Zagreb, Bihac, Split, Slavonski Brod, Mostar, Sarajevo, Ploče, Trogir, Niš and Skopje. Unfortunately, the measurements were not operated in severe wind conditions.

