

The quality control flags are:

A: accepted

C: corrected

c: partly corrected

l: lowest level rejected

R: rejected

r: partly rejected

s/S: suspicious (see below for difference)

U: unassessed

alev: data on geometrical height levels

plev: data on pressure levels

s: in case of wind data, the biases relative to the statistical reconstruction of Griesser et al. (2009) in both wind components are  $< 1.5$  m/s, but at least one of them is  $> 0.26$  m/s and statistically significant at  $s=90\%$

S: in case of wind data, at least one wind component has a bias  $> 1.5$  m/s relative to the statistical reconstruction of Griesser et al. (2009) that is statistically significant at  $s=90\%$ , but none has a bias  $> 1.5$  m/s significant at  $s=95\%$ ,