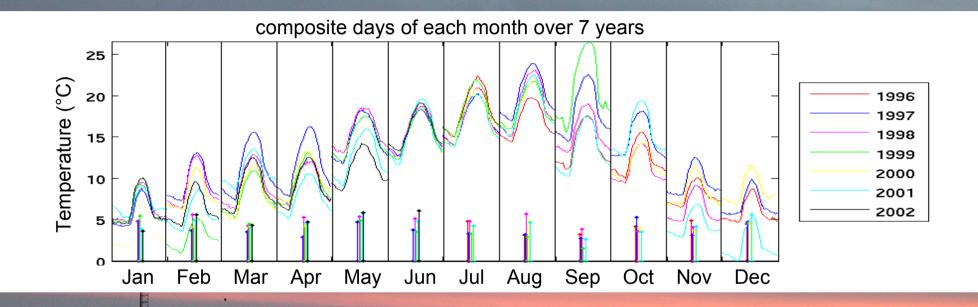
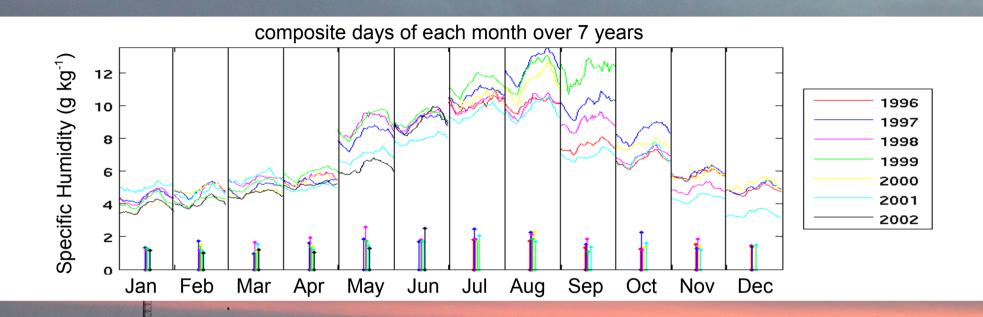
Climatology close to surface

2 m Température



Diurnal cycle of temperature : Inter-annual variability of the monthly composites

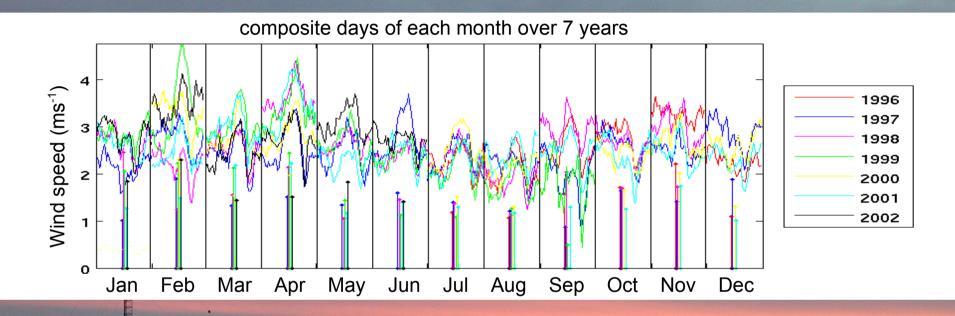
2 m Specific humidity



Diurnal cycle of air humidity: Inter-annual variability of the monthly composites

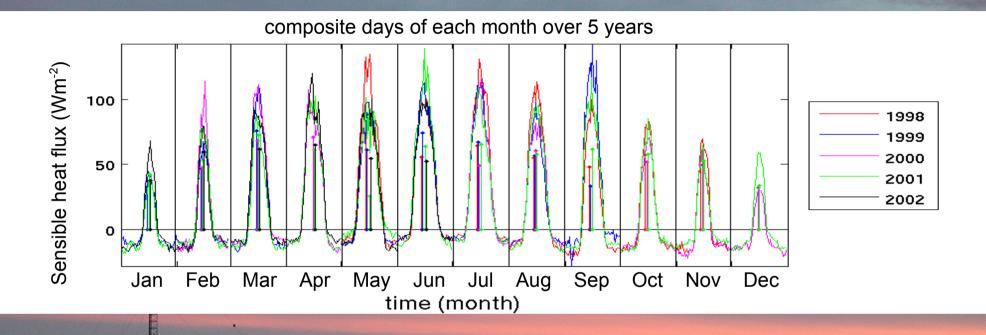
3

10 m wind speed



Diurnal cycle of surface wind speed: Inter-annual variability of the monthly composites

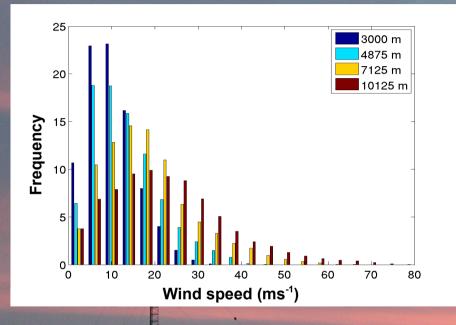
Surface sensible heat flux



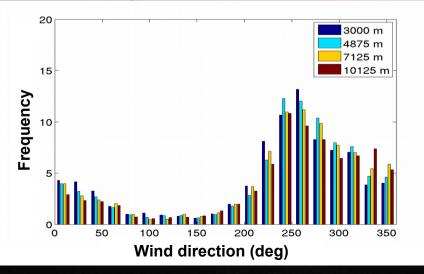
Diurnal cycle of surface sensible heat flux: Inter-annual variability of the monthly composites

Climatology Of the mid-troposphere dynamics

Wind distribution Statistics 2001-2009

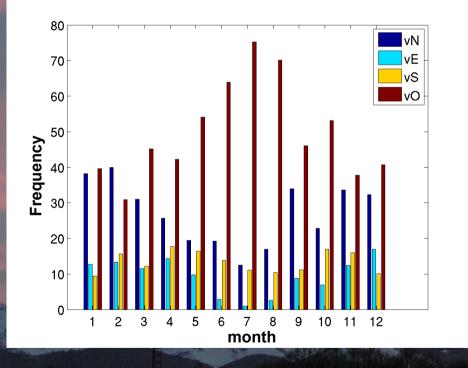


Small inter-annual variability
Westerlies largely predominant



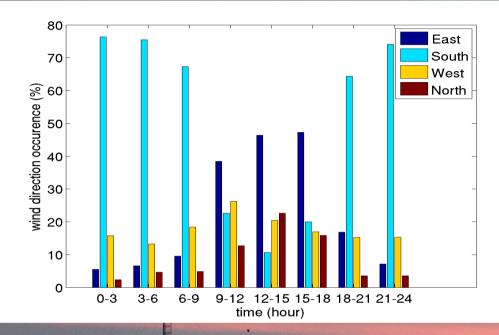
- Easterlies and Southeasterlies least predominant

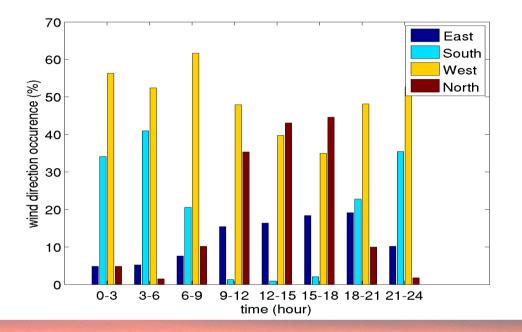
Wind sector occurrence throughout the year Statistics 2001-2009



Westerlies predominant, especially in summer
Northerlies more frequent in winter
Souterlies slightly more frequent in transitional seasons

Mountain specific phenomenology

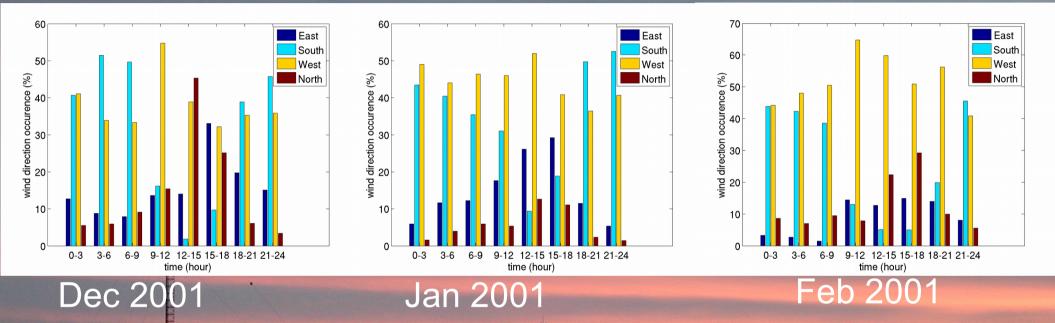




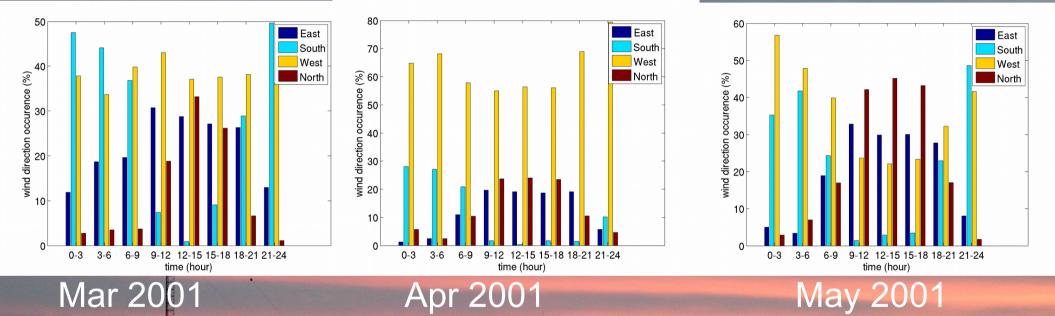
October 2001

April 2002

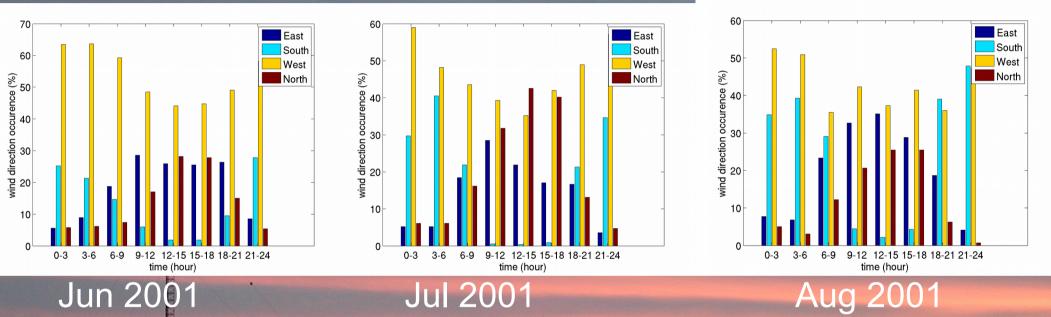
Winter



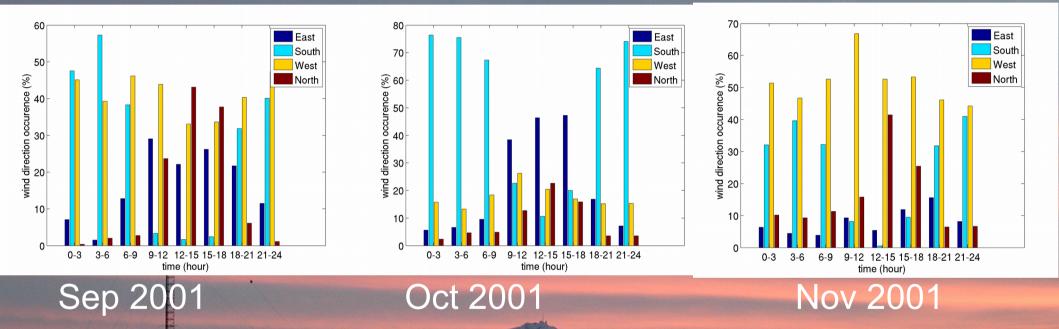
Spring



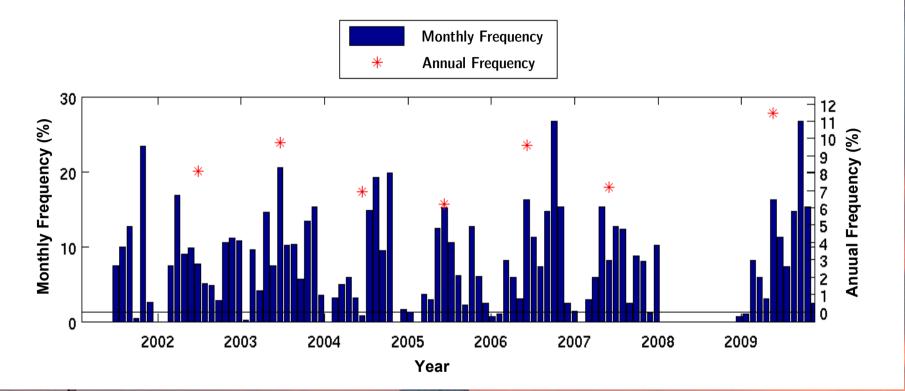
Summer



Fall



Occurrence of mountain-wave-like situations (significant foehn)



Criteria for occurrence calculation :

- southerwesterly wind at 4 km height
- Large 6h-vertgical-wind variance
- Significant occurrence
- Bimodal distribution over the year

Links to real time observations :

<u>VHF wind profiler</u> (mid and upper troposphere) <u>UHF wind profiler</u> (low and mid troposphere) <u>Sky imager</u>