

Everest Forecast 20 April -  
Everest Base Camp - 28.25/86.8 - altitude 5545m

### 1. Levels

Base camp: 5,360mr 17,858ft 500hpa

Camp 1 : 6,100mr 20,000ft 450

Camp 2 : 6,600mr 21,500ft 425

Camp 3 : 7,200mr 23,600ft 400

Camp 4 : 8,200mr 26,000ft 350

Summit : 8,848mr 29,029ft 325

extra : 9,600mr 300

### 2. Jet stream consideration:

- No significant change expected with regard to yesterdays forecast of the subtropical jet stream. The strong high pressure over the Arabian Sea and the low pressure over China maintains the strong Westerly winds over Northern India and Nepals latitudes. The for of the jet stream (the strongest part=jet streak) is positioned over the Himalayas for the whole duration of this period. Most likely the highest winds can be expected on the 22nd and 23rd of April. From the 24th there is a slight decrease as the jet streaks evacuates towards the Southeast. The positive part of this all, is that the pattern is anticyclonic which means that the airmass is stable and only scattered cloudiness and hardly any precip is formed.

- see map of Asian jet stream: valid on the 21st of april at 1200utc  
This map shows you the extension of the subtropical jet stream: the yellow surface shows you the core of the jet/there you'll find the strongest winds (at higher levels of course). The leading edge of the edge has completely covered Nepal and the ridge of the anticyclone is positioned over Western Nepal. It is likely that the whole of this jet stream will move over Nepal over the next week.

### 3. Wind - Everest (details see my windfile pdf)

- at the highest levels of the mountain:

today and tomorrow (21st) the average speed of the wind is about 50-60kt (above 8000mr) and between 7 and 8000mr it is 40-50kt.

During the days of the 22nd and the 23rd the wind gets even stronger with the 22nd possibly the windiest day: above 8000mr average 70-90kt and between 7 and 8000mr 50-70kt. These

extremely windy conditions start to top off a bit from the 24th but still remaining very wind (out of acceptable safety limits still)

- at the level of base camp:

expect also windy conditions possibly around 15kt during the first few days but on the 22nd and the 23rd possibly up to 20-25kt as well. After that there is a slight decrease, remaining windy still.

- the new map ,windlevels' shows the wind at different levels: 6000mr, 7000mr, 8000mr and summit, the red line can be considered as the (utter) limit for safety. It is expressed in m/s (conversions see below).

- you can find more wind details, in time and altitude, in the pdf ,windfile' - this is some info going with this windfile:

= bold red: +50kt

= red: +30kt

= blue: 20-30kt

= black: less than 20kt

= wind speed is in knots: 1 knot = 0,5meter/second = 1,8 kilometer/hr

= example: 260@035 means 35kt from 260 degrees (true)

= wind at 350mb can be considered as the average wind (on the low side) at that time at the summit. The wind at 300hpa could be indication as possible gusts at summit level

#### 4. General weather conditions - Everest

As the axis of the anticyclone is gradually moving closer to the location of Mount Everest the air mass is becoming increasingly more stable. This result in the following daily schedule: a sunny start with, as the day continues, formation of vertical cloudiness but not going higher than 6500 to 7000mr. Above the sky should remain clear. Any showery outbreak should be very slight and isolated. Take in account that due to the strong wind blowing snow at certain places could limit the visibility.

day 1: 21 april: sunny, limited cloud formation with hardly any risk for a slight and isolated showery outbreak; risk for snow or snow showers 10-20%

day 2: 22 april: sunny, limited cloud formation with hardly any risk for a slight and isolated showery outbreak; risk for snow or snow showers 10-20%

day 3: 23 april: sunny, limited cloud formation with hardly any risk for a slight and isolated showery outbreak; risk for snow or snow showers 10-20%

day 4: 24 april: sunny; risk for snow or snow showers 10%

day 5: 25 april: sunny, limited cloud formation with hardly any risk for a slight and isolated showery outbreak; risk for snow or snow showers 10-20%

day 6: 26 april: sunny, limited cloud formation with hardly any risk for a slight and isolated showery outbreak; risk for snow or snow showers 10-20%

- You can find in the attachments a new ,Precipitation-freezing level' map showing you the expected amount of precip over the next 5 days. This map is more accurate than the previous one ,clouds-precip'.

- On the ,long range till 5 of May map', the blue surfaces, indicate amount of precip. This shows you the expected amount of precip till the end of that period

#### 5. Air temperatures over the next seven days

BC: -9C becoming -12C

C1: -14C becoming -18C

C2: -18C becoming -21C

C3: -20C becoming -23C

C4: -28C becoming -29C

S!: -31C becoming -33C

- the temperatures at all levels of the mountain are lowering a bit over this period

- in general: low temperatures in combination with the high winds, pay attention to skin protection.

- the new map ,Temperatures' shows you graphically the evolution of the temperatures at the different levels, 6000mr, 7000mr, 8000mr and summit level. Freezing level indicates where the ambient temp turns below 0°C

- temperatures shown are the temperatures taken at 00utc of the first day of the period (first column) and compared to the temperatures at 00utc of the last day of this period (second column).

