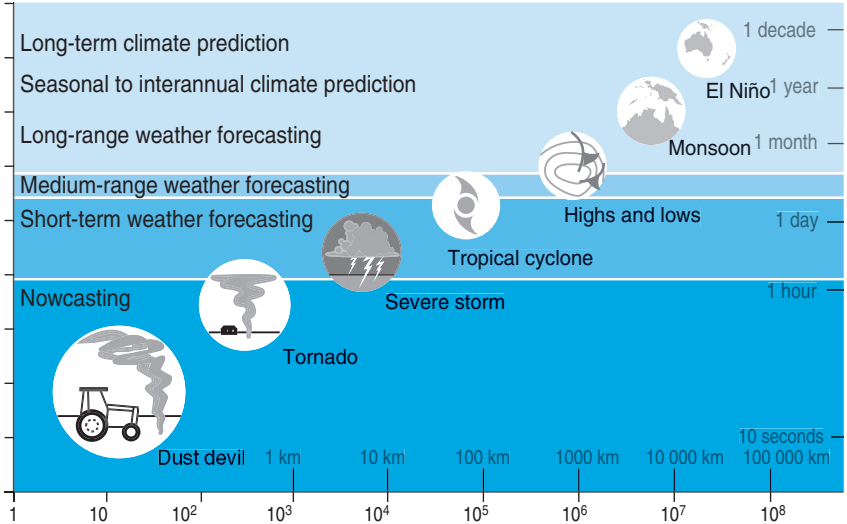
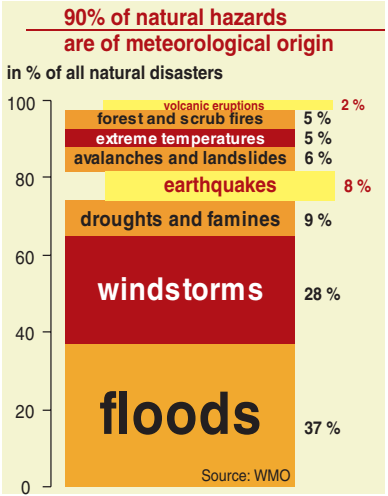

Long-term climate prediction
Seasonal to interannual climate prediction
Long-range weather forecasting
Medium-range weather forecasting
Short-term weather forecasting
Nowcasting
1 decade
El Niño
1 year
Monsoon
1 month
Highs and lows
1 day
Tropical cyclone
Severe storm
1 hour
Tornado
Dust devil
10 seconds
1 km
10 km
100 km
1000 km
10 000 km
100 000 km
1
10
10²
10³
10⁴
10⁵
10⁶
10⁷
10⁸


90% of natural hazards
are of meteorological origin
in % of all natural disasters
100
80
60
40
20
0
volcanic eruptions 2 %
forest and scrub fires 5 %
extreme temperatures 5 %
avalanches and landslides 6 %
earthquakes 8 %
droughts and famines 9 %
windstorms 28 %
floods 37 %
Source: WMO