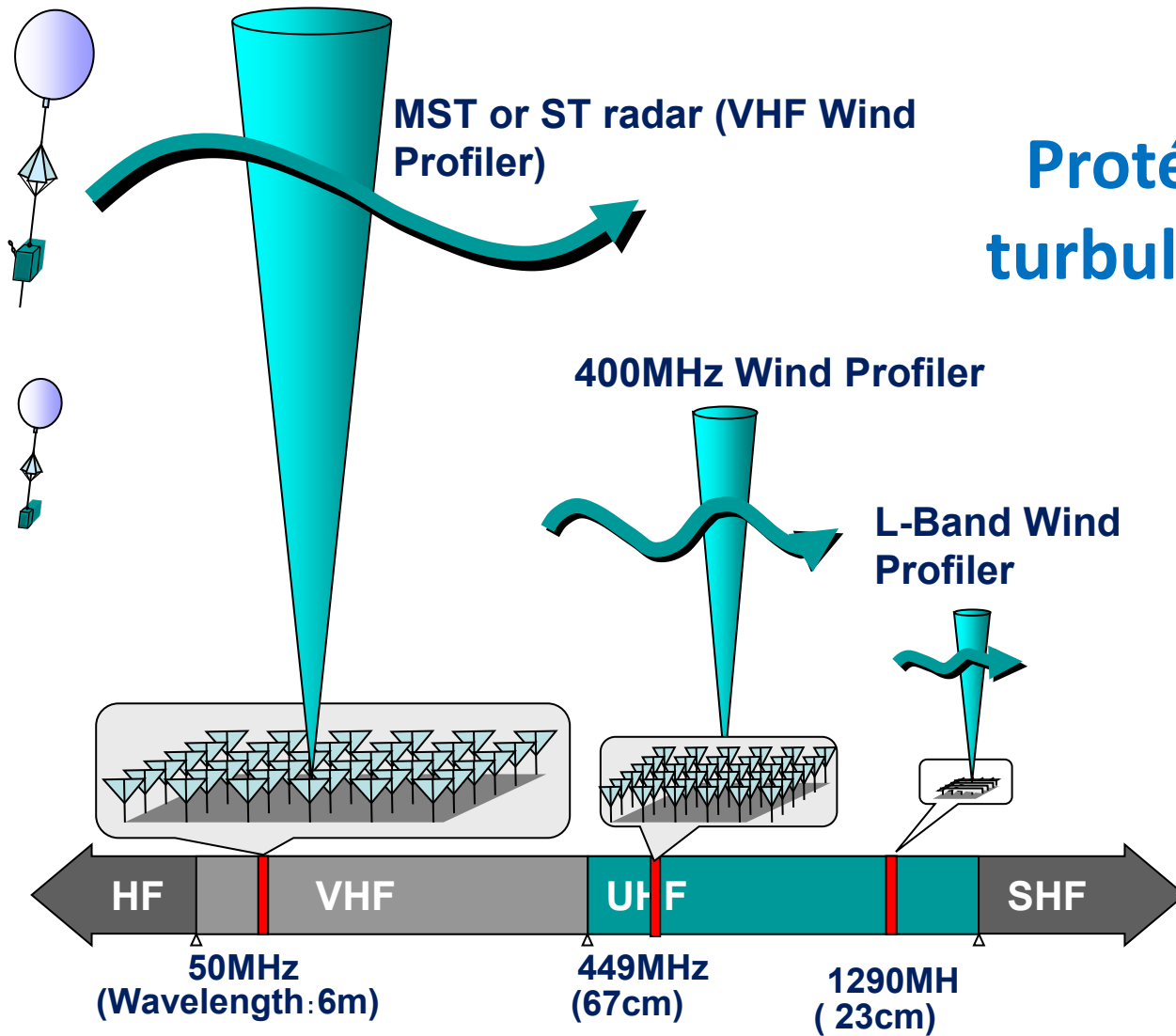


DEGREANE HORIZON

Protéger les activités aériennes des turbulences et cisaillements par radar

Dr Baptiste Domsps



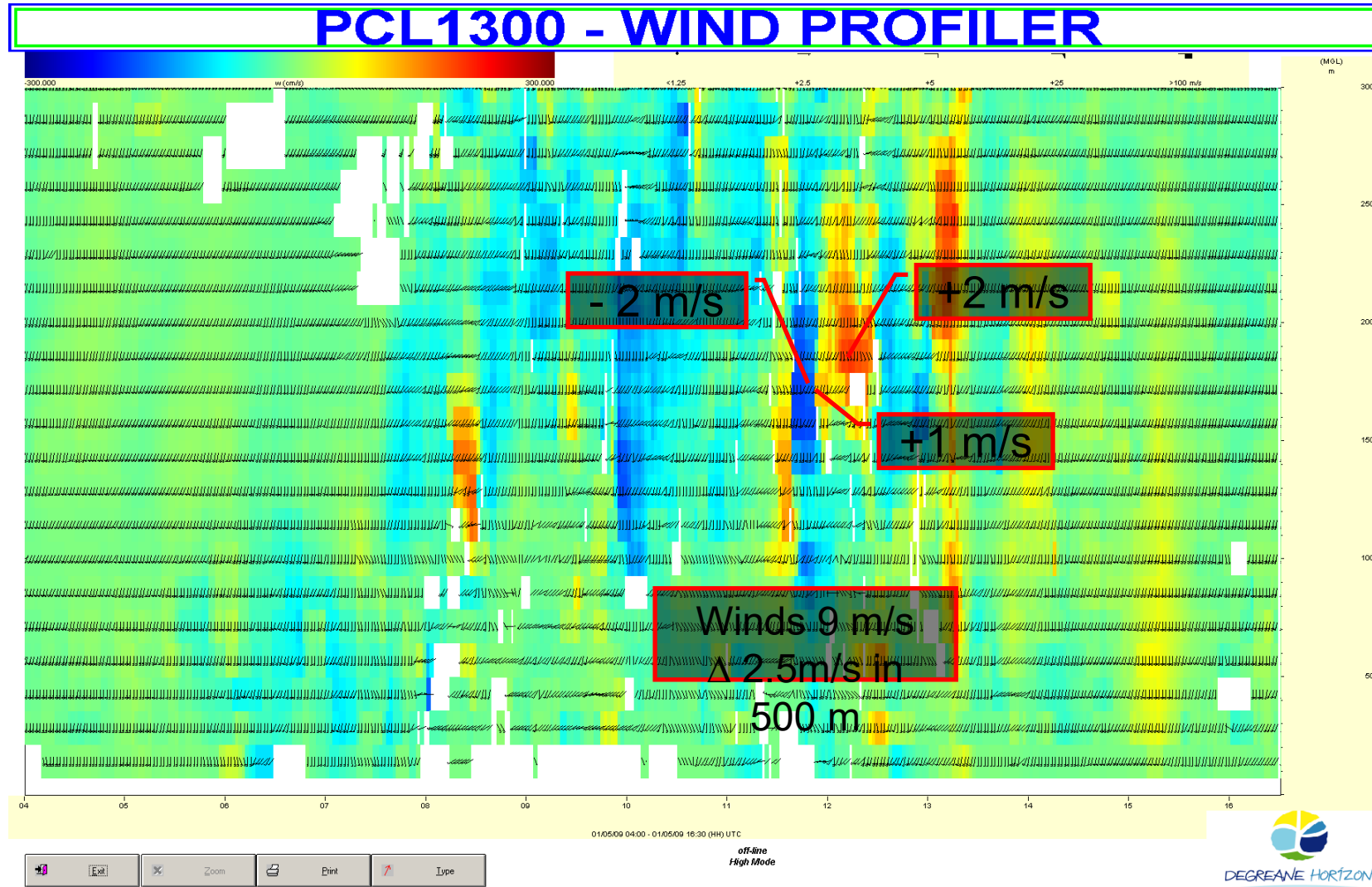
PCL1300 boundary layer wind profiler:

A L-band pulsed Doppler RADAR designed to measure wind speed and direction aloft

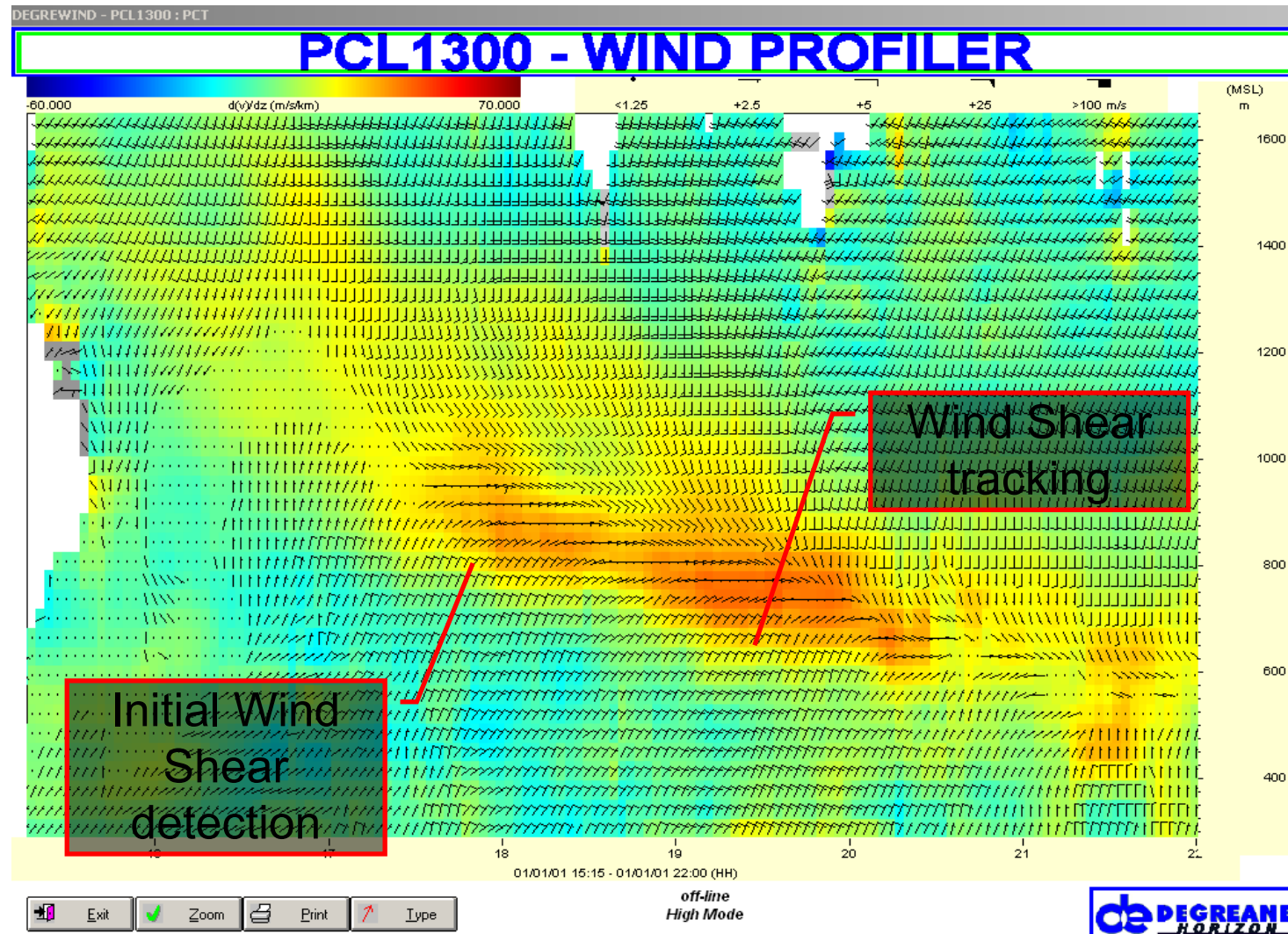


- Frequency (MHz): ~1300
 - Typical range(m) : 75 - 5000
 - Radial resolution (m) : 75 - 375
 - Temporal resolution : from 2 min
 - Peak power (W) : 500, 3500
-
- Clear air Radar
 - Based on Bragg scattering effect resulting from refractive index variations induced by turbulent structure in $\lambda/2$.
-
- Autonomous and continuous operation
 - Operate under all weather conditions
 - Accurate and reliable measurements
 - Robust system, reduced maintenance
 - Low operation cost, life span > 10years
-
- Fixe or transportable system
 - Optional temperature profiles with RASS system

Data Display : PCT- Wind Barb display (3 min update) – Up/DownDrafts



Data Display : PCT- Wind Barb display (3 min update) – Wind Shear



Data Display : Time-Doppler Analysis – Airplane and Wake Turbulence

