

SODAR

LISTENING TO THE SKY



What is SODAR?

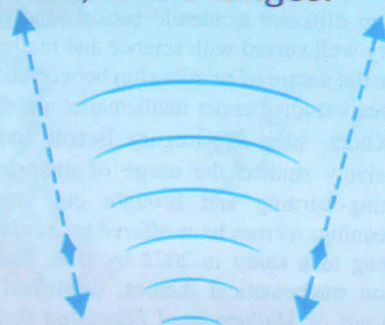
SODAR (Sound Detection and Ranging) is a smart atmospheric monitoring system that uses sound waves to study the lower atmosphere. Just as SONAR explores the ocean, SODAR "listens" to the sky to understand how air moves, mixes, and changes.

How Does It Work?

The system sends harmless sound pulses upward and analyzes the returning echoes.

These signals reveal:

- Atmospheric Boundary Layer (ABL) height
- Thermal structure (temperature inversions)
- Turbulence intensity (echo strength)
- Mixing conditions
- Stability class



CSIR- Decoding the atmosphere with Sound