

## Research & Services | Cloud Physics Experimental and Computational Laboratory (Yissum)

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### Categories

Cloud physics, rain physics, cloud seeding, tropical cyclones, radiation, remote sensing, numerical modelling, physics of aerosols, atmospheric turbulence, weather modification

### Objective/function

- Cloud Physics Laboratory focuses on the atmospheric aspects influencing cloud formation and precipitation processes by combining satellite and radar imaging, in-situ research flights, environmental and cloud modelling, modelling of severe storms, breezes, tropical cyclones, theoretical microphysics research, and climate research
- Cloud and storm simulation component

### Research provided

- **Research and methods to study cloud-aerosol interactions**
- **Nowcasting of severe convective storms**
- **Cloud seeding experiments**
- **Develop methods to modify hurricanes and severe convective storms**
- **Novel microphysical schemes for use in advanced cloud and mesoscale models**

### Advantages

- The Cloud Physics Experimental and Computational Laboratory develops technology that has revolutionized the field of cloud physics and weather modification

### Client record

- All major research-granting foundations
- California Energy Commission
- Center for Climate Research, University of Tokyo
- EUMETSAT
- European Commission
- Israeli Ministry of Defense
- Israeli Water Commission
- NASA
- Pacific Northwest National Laboratory

### Available equipment

- Access to a variety of research satellites
- High-performance computer clusters

### Staff

- Carynelisa Erlick, PhD
- Haim Gvirtzman, PhD
- Alexander Khain, PhD
- Haim-Zvi Krugliak, MS, Laboratory Manager
- Mark Pinsky, PhD
- Andrei Pokrovsky, PhD
- Daniel Rosenfeld, PhD


### Contact

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### Link to homepage

- <http://earth.huji.ac.il/facilities-in.asp?id=12>
- <http://earth.huji.ac.il/facilities-in.asp?id=28>

### Contact for more information:

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