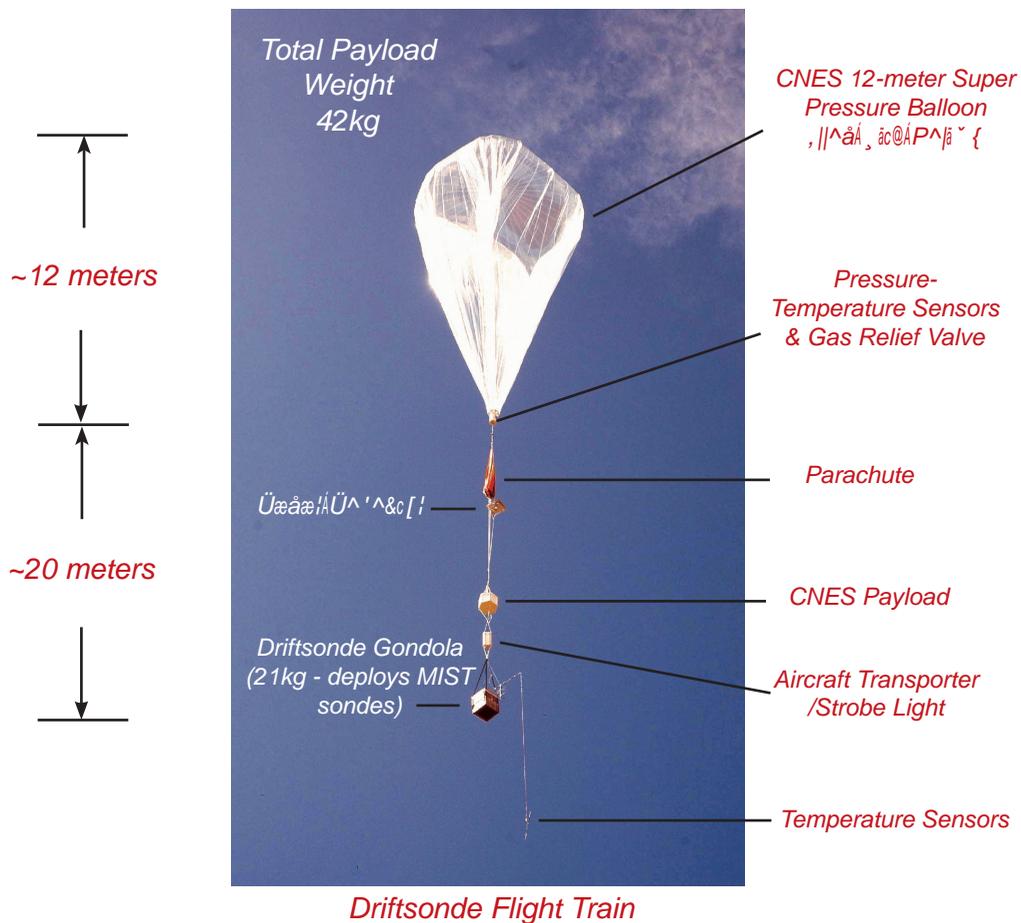




Driftsonde

Driftsonde is a cost-effective platform for deploying miniature dropsondes over oceans and remote arctic and continental regions where insitu measurements from radiosondes are not possible. The newly developed MIST dropsonde provides observations of wind, temperature, pressure and humidity, and can be dropped from Driftsonde gondola during a mission lasting several days or several weeks.



Applications:

- » Study the forecast impact of additional measurements taken over data sparse regions (e.g. oceans, arctic regions)
- » Complement the capabilities of satellite observations
- » Provide calibration and validation for new satellite-based techniques (e.g., constituent track winds, water vapor tracking, Doppler LIDAR measurements in clear air)

System Capabilities:

- » Flight duration of a few days (zero pressure balloon) to several weeks (super pressure balloon)
- » Real-time data transmission to ground stations
- » High-resolution data sampling (1 Hz)
- » Web-based operation control center and data display

