

# C-130 Investigator Handbook

## Chapter 6. NCAR/EOL Standard Instrumentation Overview

The NSF/NCAR C-130 aircraft comes equipped with a package of standard instrumentation that flies on all C-130 research missions. The measurements made by these sensors form the core of any research program and provide the information necessary to place the aircraft in space and time while characterizing the basic “state” of the local environment. Figure 6.1 provides an external diagram of the C-130 documenting the configuration of these sensors on the aircraft. Data from all of these systems are recorded on the C-130 airborne data system (ADS) and can be displayed onboard, in real time, via the network of display stations.

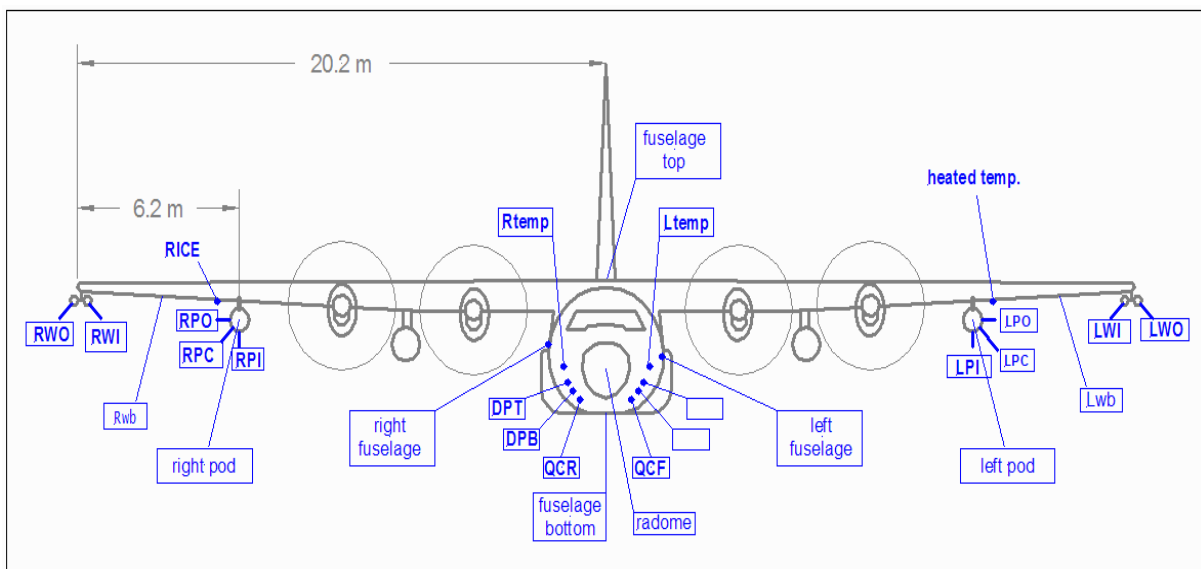


Figure 6.1 External Instrumentation Configuration of the C-130

### 6.1 [State Parameter Sensors](#)

Table 6.1 lists types and descriptions of instruments and state parameter measurements taken onboard the NSF/NCAR C-130 during flight.

### 6.2 [Radiometric Sensors](#)

Table 6.2 lists types and descriptions of instruments and radiometric measurements taken onboard the NSF/NCAR C-130 during flight.

### 6.3 [Cloud Physics Sensors](#)

Table 6.3 lists types and descriptions of instruments and cloud physics measurements taken onboard the NSF/NCAR C-130 during flight.

### 6.4 [Chemistry Sensors](#)

Table 6.4 lists types and descriptions of instruments and chemistry measurements taken onboard the NSF/NCAR C-130 during flight.

### 6.5 [Special Request/Support Sensors](#)

Table 6.4 lists types and descriptions of special request instruments and measurements taken onboard the NSF/NCAR C-130 during flight.