

U.S. DEPT. OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY  
DIGITAL OZONESONDE CHECKLIST

FLT # HU 844

Huntsville

**INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.**

DATE (LOCAL): 12/07/2013 PUMP CURRENT: 98.87 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: NLP PUMP PRESSURE: >10 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 2224471 PUMP VACUUM: 10

ADD 3.0 CC CATHODE SOLUTION:  (v) Short the cell leads:  (v)  
WAIT 2 MINUTES:  (v) Add about 2.5 CC more Cathode Solution (2Z)  (v)  
ADD 1.5 CC ANODE SOLUTION:  (v) Place Instrument inside plastic bag:  (v)  
RUN 20 MINUTES ON NO O<sub>3</sub>  (v) Store inside Styrofoam flight box:  (v)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub> = 95.24  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 12/21/2013 **DRY T100**  
INITIALS: NLP 08/13/2013 #1: 29.02  
Cathode solution date written on bottle: #239 #2: 29.13  
CHANGE CATHODE SOLUTION (3cc):  (v) T100 FLOWRATE TIMES: #3: 29.14  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No) FLOWRATE #1: 29.62 sec DRY AVG: 29.10  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v) FLOWRATE #2: 29.67  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.056  $\mu$ amps FLOWRATE #3: 29.70  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v) FLOWRATE #4: 29.80 **WET T100**  
AVERAGE T100: 29.76 FLOWRATE #5: 29.99 #1: 29.69  
#2: 29.80  
#3: 29.77  
WET AVG: 29.75

**RESONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 28.86 sec.

RECORD: ROOM TEMP (C) 21.8 ROOM REL. HUMID. (%) 33

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction 2.23 %

**DAY OF FLIGHT @ THE LAUNCH SITE.**

FLIGHT NUMBER: HU 844  
GMT DATE: 12/21/2013 LOCAL DATE: 12/21/2013  
GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_

BALLOON TYPE: 1200 Gram: Kaymont \_\_\_\_\_ Scientific Sales \_\_\_\_\_ (none) Hwoyee

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.056

VAISALA NUMBER (5 digit): 21430  
SURFACE PRESSURE: 985.6  
SURFACE TEMP. (C): 19.9  
SURFACE HUMIDITY: 87.2

SKY CONDITIONS: scattered showers, Cloudy,  
with a high near 70, South wind 15 to 20 mph,  
Chance of precipitation is 30% per NOAA.  
~ BURST PRESSURE (mb): \_\_\_\_\_

REMARKS: \_\_\_\_\_

weighoff = 1700 grams

\*T100 flow corr (%) = [(WET/DRY)-1.0] X 100