

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

FLT # HU 847

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/28/2013  
INITIALS: NLP  
PUMP NUMBER: 2222158

PUMP CURRENT: 99.23  
PUMP PRESSURE: >10  
PUMP VACUUM: 21

30 MINUTES HI O<sub>3</sub>  (v)  
5 MINUTE NO O<sub>3</sub>  (v)

ADD 3.0 CC CATHODE SOLUTION:  (v)  
WAIT 2 MINUTES:  (v)  
ADD 1.5 CC ANODE SOLUTION:  (v)  
RUN 20 MINUTES ON NO O<sub>3</sub>:  (v)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 92.13  $\mu$ amps

Short the cell leads:  (v)  
Add about 2.5 CC more Cathode Solution (2Z)  (v)  
Place Instrument inside plastic bag:  (v)  
Store inside Styrofoam flight box:  (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 01/11/2014  
INITIALS: NLP

Cathode solution date written on bottle: 239  
CHANGE CATHODE SOLUTION (3cc):  (v)  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1= 0.057  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:  
FLOWRATE #1: 29.67 sec  
FLOWRATE #2: 29.67  
FLOWRATE #3: 29.69  
FLOWRATE #4: 29.62  
FLOWRATE #5: 29.71  
AVERAGE T100: 29.67

DRY T100  
#1: 29.32  
#2: 29.13  
#3: 29.25  
DRY AVG: 29.23  
WET T100  
#1: 29.74  
#2: 29.69  
#3: 29.87  
WET AVG: 29.77

RESPONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 31.84 sec.

RECORD: ROOM TEMP (C) 20.5 ROOM REL. HUMID. (%) 32

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.85 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 847

GMT DATE: 01/11/2014

LOCAL DATE: 01/11/2014

GMT LAUNCH TIME: 19:00

LOCAL TIME: 13:00

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (None) Hwoyee

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.057

VAISALA NUMBER (9 digit): 21429  
SURFACE PRESSURE: 982.5  
SURFACE TEMP. (C): 15.3  
SURFACE HUMIDITY: 33.7

SKY CONDITIONS: Sunny, w/a high near 60  
West wind around 15 mph, w/  
gusts as high as 25 mph.  
- BURST PRESSURE (mb): 35.0247

REMARKS:

weighoff = 1700 grams

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