

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

FLT # Hu 832

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 9/21/2013 PUMP CURRENT: 94.35 30 MINUTES HI O<sub>3</sub>  (N)  
INITIALS: NLP PUMP PRESSURE: 710 5 MINUTE NO O<sub>3</sub>  (N)  
PUMP NUMBER: 2225193 PUMP VACUUM: 21.5

ADD 3.0 CC CATHODE SOLUTION:  (N) Short the cell leads:  (N)  
WAIT 2 MINUTES:  (N) Add about 2.5 CC more Cathode Solution (2Z)  (N)  
ADD 1.5 CC ANODE SOLUTION:  (N) Place Instrument inside plastic bag:  (N)  
RUN 20 MINUTES ON NO O<sub>3</sub>  (N) Store inside Styrofoam flight box:  (N)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.609  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/28/2013  
INITIALS: NLP  
Cathode solution date written on bottle: 239  
CHANGE CATHODE SOLUTION (3cc):  (N)  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (N)  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.050  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (N)

T100 FLOWRATE TIMES:

FLOWRATE #1: 27.57 sec  
FLOWRATE #2: 27.49  
FLOWRATE #3: 27.65  
FLOWRATE #4: 27.49  
FLOWRATE #5: 27.67

AVERAGE T100: 27.57

DRY T100

#1: 29.03  
#2: 28.93  
#3: 28.93  
DRY AVG: 28.96

WET T100

#1: 29.43  
#2: 29.44  
#3: 29.36  
WET AVG: 29.41

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 23:49 sec.

RECORD: ROOM TEMP (C) 23.6 ROOM REL. HUMID. (%) 43

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.55%

DAY OF FLIGHT @ THE LAUNCH SITE. NLP

FLIGHT NUMBER: Hu 832  
GMT DATE: 09/28/2013  
GMT LAUNCH TIME: 18:00:00

LOCAL DATE: 09/28/2013  
LOCAL TIME: 13:00:00

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

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.050

VAISALA NUMBER (9 digit): 20964  
SURFACE PRESSURE: 997.4  
SURFACE TEMP. (C): 25.8  
SURFACE HUMIDITY: 45.3

SKY CONDITIONS: \_\_\_\_\_

~ BURST PRESSURE (mb): 34.85 Alt

REMARKS: Sunny with a high near 80, 73 at time of flight. SE wind ~ 5 mph

weighoff = 1700 grams

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