

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

FLT # HU723

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2/16/2011 PUMP CURRENT: 91.84 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: WTZ PUMP PRESSURE: 211 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 2220725 PUMP VACUUM: 22

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>: = 0.515  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): SKH  
INITIALS: SKH  
Cathode solution date written on bottle: Sep. 11, 2011  
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= 0.015  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:  
FLOWRATE #1: 29.60 sec  
FLOWRATE #2: 29.59  
FLOWRATE #3: 29.63  
FLOWRATE #4: 29.60  
FLOWRATE #5: 29.69  
AVERAGE T100: 29.62

DRY T100  
#1: 27.39  
#2: 27.57  
#3: 27.50  
DRY AVG: 27.486  
27.49  
WET T100  
#1: 28.17  
#2: 28.13  
#3: 28.23  
WET AVG: 28.17

RESPONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 33.9 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 19

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction: 2.47%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU723  
GMT DATE: 2/16 LOCAL DATE: 2/16/2011  
GMT LAUNCH TIME: 1207 LOCAL TIME: 13:07

BALLOON TYPE 1200 Gram : Kaymont  Scientific Sales  (v one)

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

VAISALA NUMBER (9 digit): 639151204

SKY CONDITIONS: cloudy

SURFACE PRESSURE: \_\_\_\_\_

SURFACE TEMP. (C): \_\_\_\_\_

SURFACE HUMIDITY : \_\_\_\_\_

~ BURST PRESSURE (mb) : \_\_\_\_\_

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

weighoff = \_\_\_\_\_ grams

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