

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

FLT # HU721

Huntsville

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

DATE (LOCAL): 1/25/2012 PUMP CURRENT: 86.31 30 MINUTES HI O<sub>3</sub> (v)  
INITIALS: WTC PUMP PRESSURE: 711 5 MINUTE NO O<sub>3</sub> (v)  
PUMP NUMBER: 2320735 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>: = 0.581  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 2/2/04/2012  
INITIALS: BM  
Cathode solution date written on bottle: 09/08  
CHANGE CATHODE SOLUTION (3cc): (v)  
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES: (v)  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1= 0.140  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: (v)

T100 FLOWRATE TIMES:  
FLOWRATE #1: 29.09 sec  
FLOWRATE #2: 29.01  
FLOWRATE #3: 28.88  
FLOWRATE #4: 28.97  
FLOWRATE #5: 28.93  
AVERAGE T100: 28.98

**DRY T100**  
#1: 27.35  
#2: 27.41  
#3: 27.40  
DRY AVG: 27.39  
**WET T100**  
#1: 28.07  
#2: 28.13  
#3: 28.10  
WET AVG: 28.10

**RESONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 30.03 sec.  
RECORD: ROOM TEMP (C) 22.1 ROOM REL. HUMID. (%) 35  
RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 2.59%

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

FLIGHT NUMBER: HU721  
GMT DATE: \_\_\_\_\_ LOCAL DATE: \_\_\_\_\_  
GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_

BALLOON TYPE \_\_\_\_\_ Gram : Kaymont \_\_\_\_\_ Scientific Sales \_\_\_\_\_ (v one)

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

VAISALA NUMBER (9 digit): 341303401 SKY CONDITIONS: \_\_\_\_\_  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY : \_\_\_\_\_ ~ BURST PRESSURE (mb) : \_\_\_\_\_

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

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

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