

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

FLT # H4719

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 01/14/2012 PUMP CURRENT: 120000 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: BH PUMP PRESSURE: 710 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 2220738 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>: = 0.556 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/21/2012  
INITIALS: WT  
Cathode solution date written on bottle: 9/8/2011  
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= 0.023 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.28 sec  
FLOWRATE #2: 29.18  
FLOWRATE #3: 29.25  
FLOWRATE #4: 29.27  
FLOWRATE #5: 29.22  
AVERAGE T100: 29.24

DRY T100

#1: 27.18  
#2: 27.46  
#3: 27.55  
DRY AVG: 27.40

WET T100

#1: 28.13  
#2: 28.21  
#3: 28.17  
WET AVG: 28.17

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 29.19 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 37

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 2.8 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4719  
GMT DATE: 1/21/2012 LOCAL DATE: 1/21/2012  
GMT LAUNCH TIME: 18:59:51 LOCAL TIME: 12:59:51

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

O<sub>3</sub> BACKGROUND (μamps from F9 key): \_\_\_\_\_

VAISALA NUMBER (9 digit): 345303712

SKY CONDITIONS: cloudy

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

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

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

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

Alt: 32.56 km

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

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

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