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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # _____

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/6/2011
INITIALS: WF
PUMP NUMBER: 23-08273

PUMP CURRENT: 118
PUMP PRESSURE: 9
PUMP VACUUM: 22

30 MINUTES HI O_3 ✓(√)
5 MINUTE NO O_3 ___(√)

ADD 3.0 CC CATHODE SOLUTION: ✓(√)
WAIT 2 MINUTES: ✓(√)
ADD 1.5 CC ANODE SOLUTION: ✓(√)
RUN 20 MINUTES ON NO O_3 ✓(√)

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

Record the current after the 20 MINUTES ON NO O_3: = 0.387 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/15/2011
INITIALS: WF
Cathode solution date written on bottle: 3/20/2010
CHANGE CATHODE SOLUTION (3cc) : ✓(√)
CHANGE ANODE SOLUTION (1.5cc): ✓(Yes/No)
RUN ON NO O_3 FOR 5 MINUTES: ✓(√)
RECORD THE NO O_3 BACKGRND#1: **BG1**= .071 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.90 sec
FLOWRATE #2: 29.90
FLOWRATE #3: 29.82
FLOWRATE #4: 29.80
FLOWRATE #5 29.67
AVERAGE T100: 29.82

DRY T100
#1: 26.23
#2: 28.30
#3: 25.09
DRY AVG: 26.21

WET T100
#1: 28.43
#2: 28.29
#3: 29.31
WET AVG: 28.34

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.67 sec
RECORD: ROOM TEMP (C) 21.9 ROOM REL. HUMID. (%) 38
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** .46 %
yes. Under 1%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HQ08706
GMT DATE : 10/15/2011
GMT LAUNCH TIME : 12:54

LOCAL DATE: 10/15/2011
LOCAL TIME: 1:00

BALLOON TYPE 1000 **Gram :** Kaymont ✓ Scientific Sales____ (√ one)

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 17871 4152
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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