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

FLT# HU676

DIGITAL OZONESONDE CHECKLIST **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/26
INITIALS: BH
PUMP NUMBER: 27977.V21

PUMP CURRENT: 87.70
PUMP PRESSURE: 710
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: = 0.130 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 03/05
INITIALS: BH
Cathode solution date written on bottle: 03/22/2010
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**= 0.021 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.99 sec
FLOWRATE #2: 28.83
FLOWRATE #3: 28.72
FLOWRATE #4: 28.83
FLOWRATE #5 28.86
AVERAGE T100: 28.85

DRY T100
#1: 27.57
#2: 27.46
#3: 27.57
DRY AVG: 27.53

WET T100
#1: 28.15
#2: 28.12
#3: 28.07
WET AVG: 28.11

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 38.92 sec.
RECORD: ROOM TEMP (C) 19.6 ROOM REL. HUMID. (%) 25
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.1 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU676
GMT DATE :_____ LOCAL DATE: _____
GMT LAUNCH TIME :_____ LOCAL TIME: _____

BALLOON TYPE_____ **Gram :** Kaymont___ Scientific Sales____ (√ one)

O_3 BACKGROUND (µamps from F9 key):_____

VAISALA NUMBER (9 digit): 144455112
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____
SURFACE HUMIDITY :_____

SKY CONDITIONS:_____
_____
_____
~ BURST PRESSURE (mb) :_____

REMARKS:_____
_____
_____

weighoff =_____ grams

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