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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU 545

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/29/08
INITIALS: YR/SK
PUMP NUMBER: 278133

PUMP CURRENT: 83-32
PUMP PRESSURE: 10
PUMP VACUUM: 19

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: = 0.662 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/13/08
INITIALS: YR/PB
Cathode solution date written on bottle: ___
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**= 0.009 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.86 sec
FLOWRATE #2: 29.77
FLOWRATE #3: 29.78
FLOWRATE #4: 29.84
FLOWRATE #5 29.78
AVERAGE T100: 29.80

DRY T100
#1: 28.34
#2: 28.49
#3: 28.46
DRY AVG: 28.43

WET T100
#1: 29.03
#2: 28.97
#3: 29.05
WET AVG: 29.01

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.70 sec.
RECORD: ROOM TEMP (C) 14 ROOM REL. HUMID. (%) 22
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.04 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 545
GMT DATE : 12/13/08
GMT LAUNCH TIME : 19:08:17

LOCAL DATE: 12/13/08
LOCAL TIME: 13:08:17

BALLOON TYPE 1200 **Gram :** Kaymont ✓ Scientific Sales___ (√ one)

O_3 BACKGROUND (µamps from F9 key): 0.009

VAISALA NUMBER (9 digit): 158322947
SURFACE PRESSURE: ___
SURFACE TEMP. (C): ___
SURFACE HUMIDITY : ___

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb) : 7.81
32-38 Km

REMARKS: Minor problem - There was a gap in data reception b/w 23-26 Km

weighoff = ___ grams

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