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

FLT # HU565

DIGITAL OZONESONDE CHECKLIST **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4/11/09
INITIALS: WC/BH
PUMP NUMBER: 27 8080

PUMP CURRENT: 87.67
PUMP PRESSURE: 10 16
PUMP VACUUM: 18 16

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: = 0.309 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/25/09
INITIALS: WC/BH
Cathode solution date written on bottle: 7/16/08
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: 28.92 sec
FLOWRATE #2: 28.96
FLOWRATE #3: 28.96
FLOWRATE #4: 28.91
FLOWRATE #5 29.03
AVERAGE T100: 28.95

DRY T100
#1: 28.12
#2: 28.03
#3: 28.06
DRY AVG: 28.07

WET T100
#1: 28.65
#2: 28.54
#3: 28.62
WET AVG: 28.60

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 28.78 sec.
RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 32
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 1.88 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 565
GMT DATE : 4/25/09
GMT LAUNCH TIME : 18:04:09
LOCAL DATE: 4/25/09
LOCAL TIME: 18:04:09

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

O_3 BACKGROUND (µamps from F9 key): 0.009

VAISALA NUMBER (9 digit): X2140230 4
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb) : 11.490
Altitude: 30.13 km

REMARKS:

weighoff =_____ grams

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