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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU 615

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3/20/10
INITIALS: B
PUMP NUMBER: 27-8885

PUMP CURRENT: 82.05
PUMP PRESSURE: > 41
PUMP VACUUM: ≥ 3

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: =0.788 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/3/2010
INITIALS: SL
Cathode solution date written on bottle: 10/14/09
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**=0.028 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.16 sec
FLOWRATE #2: 28.23
FLOWRATE #3: 28.23
FLOWRATE #4: 28.23
FLOWRATE #5 28.28
AVERAGE T100: 28.226

DRY T100
#1: 27.59
#2: 27.65
#3: 27.61
DRY AVG: 27.62

WET T100
#1: 28.26
#2: 28.33
#3: 28.32
WET AVG: 28.31

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 28.85 sec.
RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 34
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.46%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 615
GMT DATE : 4/3/10
GMT LAUNCH TIME : 18:06:26
LOCAL DATE: 4/3/10
LOCAL TIME: 13:06:26

BALLOON TYPE 1200 **Gram :** Kaymont X Scientific Sales ____ (√ one)

O_3 BACKGROUND (µamps from F9 key): 0.028

VAISALA NUMBER (9 digit): 149752840
SURFACE PRESSURE: ____
SURFACE TEMP. (C): ____
SURFACE HUMIDITY : ____

SKY CONDITIONS: overcast
~ BURST PRESSURE (mb) : 8.962 at 31,485 kft

REMARKS: ____

weighoff = ____ grams

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