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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU 622

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/6/2010
INITIALS: WTC
PUMP NUMBER: 22-8817

PUMP CURRENT: 84.51
PUMP PRESSURE: >11
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: = 6.299 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/8/2010
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**=0.089 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.39 sec
FLOWRATE #2: 28.50
FLOWRATE #3: 28.49
FLOWRATE #4: 28.50
FLOWRATE #5 28.45
AVERAGE T100: 28.47

DRY T100
#1: 27.44
#2: 27.47
#3: 27.53
DRY AVG: 27.48

WET T100
#1: 28.23
#2: 28.20
#3: 28.16
WET AVG: 28.20

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 30.10 sec.
RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 26
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.62%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 622
GMT DATE : 5/8/10
GMT LAUNCH TIME : 18:01:20
LOCAL DATE: 5/8/10
LOCAL TIME: 13:01:20

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

O_3 BACKGROUND (µamps from F9 key): 0.089

VAISALA NUMBER (9 digit): 188323848
SURFACE PRESSURE: /
SURFACE TEMP. (C): /
SURFACE HUMIDITY : /

SKY CONDITIONS: clear
10mph E wind
~ BURST PRESSURE (mb) : ____ at 32.04 Km

REMARKS: Lost signal from 16Km - 25Km

weighoff =_____ grams

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