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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU707

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/13/2011
INITIALS: VTC
PUMP NUMBER: 22/0210

PUMP CURRENT: 93.76
PUMP PRESSURE: 711
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: = 0.406 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/22
INITIALS: BH
Cathode solution date written on bottle 05/24/2011
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=** 0.079 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.59 sec
FLOWRATE #2: 29.49
FLOWRATE #3: 29.36
FLOWRATE #4: 29.21
FLOWRATE #5 29.29
AVERAGE T100: 29.39

DRY T100
#1: 27.83
#2: 27.93
#3: 27.89
DRY AVG: 27.92

WET T100
#1: 28.28
#2: 28.27
#3: 28.19
WET AVG: 28.25

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.89 sec.
RECORD: ROOM TEMP (C) 19.3 ROOM REL. HUMID. (%) 31
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.18%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU707
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): j4819044 8
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____
SURFACE HUMIDITY :_____

SKY CONDITIONS:_____
~ BURST PRESSURE (mb) : 29.49

REMARKS:_____

weighoff =_____ grams

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