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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU717

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2/17/2011
INITIALS: ORA
PUMP NUMBER: 2220641

PUMP CURRENT: 85.64
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: = .582 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/7/2012
INITIALS: ORA
Cathode solution date written on bottle: 9/8/2011
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**= .040 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: √ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.26 sec
FLOWRATE #2: 29.35
FLOWRATE #3: 29.26
FLOWRATE #4: 29.37
FLOWRATE #5 29.41
AVERAGE T100: 29.33

DRY T100
#1: 27.56
#2: 27.62
#3: 27.63
DRY AVG: 27.60

WET T100
#1: 28.12
#2: 28.26
#3: 28.09
WET AVG: 28.16

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 30.30 sec.
RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 35
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.02%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU717
GMT DATE :
GMT LAUNCH TIME : 1:00
LOCAL DATE: 1/7
LOCAL TIME: 1:00

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

O_3 BACKGROUND (µamps from F9 key):

VAISALA NUMBER (9 digit): 67115S5
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Rain
~ BURST PRESSURE (mb) : 27.5km

REMARKS:

weighoff = _____ grams

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