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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # Hu623

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 05/6/2010
INITIALS: WTC
PUMP NUMBER: 278993
PUMP CURRENT: 80.37
PUMP PRESSURE: 211
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 ✓(√)
Record the current after the 20 MINUTES ON NO O_3: = 0.595 µamps

Short the cell leads: ✓(√)
Add about 2.5 CC more Cathode Solution (2Z) ✓(√)
Place Instrument inside plastic bag: ✓(√)
Store inside Styrofoam flight box: ✓(√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/15/2010
INITIALS: WTC
Cathode solution date written on bottle: 10/14/2009
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**= 0.082 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.69 sec
FLOWRATE #2: 28.57
FLOWRATE #3: 28.69
FLOWRATE #4: 28.63
FLOWRATE #5 28.62
AVERAGE T100: 28.63

DRY T100
#1: 27.77
#2: 27.82
#3: 27.82
DRY AVG: 27.81

WET T100
#1: 28.47
#2: 28.13
#3: 28.43
WET AVG: 28.34

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.49 sec.
RECORD: ROOM TEMP (C) 76 ROOM REL. HUMID. (%) 47
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.90%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu623
GMT DATE : 5/15/2010
GMT LAUNCH TIME : 17:59:56
LOCAL DATE: 5/15/2010
LOCAL TIME: 12:59:56

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

O_3 BACKGROUND (µamps from F9 key):

VAISALA NUMBER (9 digit): 30812175O
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Partly Cloudy

~ BURST PRESSURE (mb) :
Alt: 32.63 km

REMARKS:

weighoff =_____ grams

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