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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU705

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/8/2011
INITIALS: WTC
PUMP NUMBER: 2.29854-U20

PUMP CURRENT: 89.50
PUMP PRESSURE: 710
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: = 0.626 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/8/2011
INITIALS: WTC
Cathode solution date written on bottle: 3/20/2010
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=** 0.019 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 27.92 sec
FLOWRATE #2: 28.03
FLOWRATE #3: 27.89
FLOWRATE #4: 27.93
FLOWRATE #5 28.02
AVERAGE T100: 27.95

DRY T100
#1: 27.40
#2: 27.59
#3: 27.58
DRY AVG: 27.52

WET T100
#1: 28.07
#2: 28.30
#3: 28.23
WET AVG: 28.2

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 25.44 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 37
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.47%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU705
GMT DATE : 10/8/2011
GMT LAUNCH TIME : 17:56:56
LOCAL DATE: 10/8/2011
LOCAL TIME: 12:56:56

BALLOON TYPE 1000 **Gram :** Kaymont ✓ Scientific Sales ___ (√ one)

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 123569213
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Partly Cloudy
~ BURST PRESSURE (mb) : _____
Alt: 28.66 km

REMARKS: _____

weighoff = _____ grams

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