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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU737

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 05/12/2012
INITIALS: BH
PUMP NUMBER: 77/0070

PUMP CURRENT: 87.40
PUMP PRESSURE: 210
PUMP VACUUM: 24

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: = 0.509 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/26/2012
INITIALS: WTC
Cathode solution date written on bottle: Sept 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**= 0.069 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.9 sec
FLOWRATE #2: 29.8
FLOWRATE #3: 29.8
FLOWRATE #4: 29.9
FLOWRATE #5 29.8
AVERAGE T100: 29.85

DRY T100
#1: 29.1
#2: 29.2
#3: 29.1
DRY AVG: 29.15

WET T100
#1: 30.7
#2: 30.6
#3: 30.7
WET AVG: 30.65

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.2 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 47
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** _____ %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU737
GMT DATE : 5/26/2012
GMT LAUNCH TIME : _____
LOCAL DATE: 5/26/2012
LOCAL TIME: _____

BALLOON TYPE 600 **Gram :** Kaymont ✓ Scientific Sales ____ (√ one)

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 239/13443
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____ +4.2
SURFACE HUMIDITY : _____

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

REMARKS: _____

weighoff = _____ grams

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