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

FLT # HU626

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 05/22/2010
INITIALS: BJT
PUMP NUMBER: 22893412D
PUMP CURRENT: 82.54
PUMP PRESSURE: 760
PUMP VACUUM: 21
30 MINUTES HI O_3 ✓(√)
5 MINUTE NO O_3 ✓(√)

ADD 3.0 CC CATHODE SOLUTION:	✓(√)	Short the cell leads:	✓(√)
WAIT 2 MINUTES:	✓(√)	Add about 2.5 CC more Cathode Solution (2Z)	✓(√)
ADD 1.5 CC ANODE SOLUTION:	✓(√)	Place Instrument inside plastic bag:	✓(√)
RUN 20 MINUTES ON NO O_3	✓(√)	Store inside Styrofoam flight box:	✓(√)

Record the current after the 20 MINUTES ON NO O_3: = 0.768 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/5/2010
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**= 0.026 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.69 sec
FLOWRATE #2: 28.52
FLOWRATE #3: 28.52
FLOWRATE #4: 28.57
FLOWRATE #5 28.43
AVERAGE T100: 28.58

DRY T100
#1: 27.54
#2: 27.67
#3: 27.59
DRY AVG: 27.61

WET T100
#1: 28.14
#2: 28.09
#3: 28.29
WET AVG: 28.17

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.56 sec.
RECORD: ROOM TEMP (C) 24.4 ROOM REL. HUMID. (%) 52
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.03%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU626
GMT DATE : 6/5/2010
GMT LAUNCH TIME : 18:01:40
LOCAL DATE: 6/5/2010
LOCAL TIME: 13:01:40

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

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 30901 6043
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____
SKY CONDITIONS: Partly Cloudy
~ BURST PRESSURE (mb) : _____ @ Altitude: 32.09 km

REMARKS: Took 26 minutes to go below 0.8 Mamps in prep.

weighoff = _____ grams

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