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

DIGITAL OZONESONDE CHECKLIST — Huntsville

FLT # _____

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/25/09
INITIALS: BH
PUMP NUMBER: 27 85 42

PUMP CURRENT: 86.64
PUMP PRESSURE: >10
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: = 0.492 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/5/09
INITIALS: SL
Cathode solution date written on bottle: 4117109
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**= 0.049 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 27.73 sec
FLOWRATE #2: 27.69
FLOWRATE #3: 27.71
FLOWRATE #4: 27.92
FLOWRATE #5 27.84
AVERAGE T100: 27.78

DRY T100
#1: 27.73
#2: 27.73
#3: 27.78
DRY AVG: 27.75

WET T100
#1: 28.39
#2: 28.33
#3: 28.34
WET AVG: 28.35

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 30.43 sec.
RECORD: ROOM TEMP (C) 18 ROOM REL. HUMID. (%) 20
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.16 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU598
GMT DATE : 12/5/09
GMT LAUNCH TIME : 19:03

LOCAL DATE: 12/5/09
LOCAL TIME: 13:03

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

O_3 BACKGROUND (µamps from F9 key): 0.049

VAISALA NUMBER (9 digit): 309010246O
SURFACE PRESSURE: ___
SURFACE TEMP. (C): ___
SURFACE HUMIDITY : ___

SKY CONDITIONS: partly cloudy

~ BURST PRESSURE (mb) : ___ @ 32.041

REMARKS: ___

weighoff = ___ grams

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