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

FLT # HU727

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2/20/2012
INITIALS: [illegible]
PUMP NUMBER: 2Z0724

PUMP CURRENT: 89.62
PUMP PRESSURE: >11
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: = .486 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): ~~02/24~~ ~~03/10~~ 3/17 Changed Solutions Try Again
INITIALS: ~~BJ~~ KH
Cathode solution date written on bottle: ~~09/08/2011~~ 9/8/2011
CHANGE CATHODE SOLUTION (3cc): ✓ (√) ✓
CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No) ✓
RUN ON NO O_3 FOR 5 MINUTES: ✓ (√)
RECORD THE NO O_3 BACKGRND#1: **BG1=** ~~.0[illegible]~~ .023 μamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.38 sec
FLOWRATE #2: 29.34
FLOWRATE #3: 29.29
FLOWRATE #4: 29.23
FLOWRATE #5 29.09
AVERAGE T100: 29.27

DRY T100
#1: 27.69
#2: 27.49
#3: 27.59
DRY AVG: 27.59

WET T100
#1: 28.23
#2: 28.26
#3: 28.23
WET AVG: 28.24

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 22.57 sec.
RECORD: ROOM TEMP (C) 23.6 ROOM REL. HUMID. (%) 45
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.35 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU727
GMT DATE : 3/17/2012
GMT LAUNCH TIME : 7am?.

LOCAL DATE: 3/17/2012
LOCAL TIME: 1:00

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

O_3 BACKGROUND (μamps from F9 key):

VAISALA NUMBER (9 digit): B1065368
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: cloudy

~ BURST PRESSURE (mb) :

REMARKS:

weighoff =________ grams

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