

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

FLT# HU 733

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4/25/2012 PUMP CURRENT: 80.10 30 MINUTES HI O₃ (✓)
INITIALS: WTC PUMP PRESSURE: 311 5 MINUTE NO O₃ (✓)
PUMP NUMBER: ~~97777~~ PUMP VACUUM: 22
ADD 3.0 CC CATHODE SOLUTION: 2210067 (✓) 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 O₃ (✓) Store inside Styrofoam flight box: (✓)
Record the current after the 20 MINUTES ON NO O₃: = 0.432 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/28/2012 **DRY T100**
INITIALS: WTC #1: 30.0
Cathode solution date written on bottle: Sept 5, 2011 #2: 30.0
CHANGE CATHODE SOLUTION (3cc): (✓) #3: 30.0
CHANGE ANODE SOLUTION (1.5cc): (Yes/No) DRY AVG: 30.0
RUN ON NO O₃ FOR 5 MINUTES: (✓) **WET T100**
RECORD THE NO O₃ BACKGRND#1: BG1 = 0.063 μamps #1: 30.6
RUN ON 5 microamps of O₃ for 10 Minutes: (✓) #2: 30.7
#3: 30.6
WET AVG: 30.63

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.6 sec
FLOWRATE #2: 28.9
FLOWRATE #3: 28.9
FLOWRATE #4: 28.9
FLOWRATE #5: 28.8
AVERAGE T100: 28.82

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 30.90 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 47

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 2.1 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 733
GMT DATE: 4/28/2012 LOCAL DATE: 4/28/2012
GMT LAUNCH TIME: _____ LOCAL TIME: _____

BALLOON TYPE 800 Gram: Kaymont (✓) Scientific Sales _____ (✓ one)

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 239113440
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____ 3.1

SKY CONDITIONS: Light Clouds

~ BURST PRESSURE (mb): _____
Alt: 29.6m

REMARKS: _____

weighoff = _____ grams

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