

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

FLT # _____

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/2/10 PUMP CURRENT: 97 30 MINUTES HI O₃ (v)
INITIALS: SK PUMP PRESSURE: >11 5 MINUTE NO O₃ (v)
PUMP NUMBER: 228694 PUMP VACUUM: 20

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)
WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)
ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)
RUN 20 MINUTES ON NO O₃: (v) Store inside Styrofoam flight box: (v)
Record the current after the 20 MINUTES ON NO O₃: = 0.45 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/9/10
INITIALS: WTC
Cathode solution date written on bottle:
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1=0.025 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.80 sec
FLOWRATE #2: 28.50
FLOWRATE #3: 28.51
FLOWRATE #4: 28.47
FLOWRATE #5: 28.48

DRY T100
#1: 28.17
#2: 28.19
#3: 28.08
DRY AVG: 28.14
WET T100
#1: 28.52
#2: 28.47
#3: 28.35
WET AVG: 28.44

AVERAGE T100: 28.55

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 33.57 sec.
RECORD: ROOM TEMP (C) 14 ROOM REL. HUMID. (%) 12
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.06 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4603
GMT DATE: 1/9/10 LOCAL DATE: 1/9/10
GMT LAUNCH TIME: 19:07:13 LOCAL TIME: 1:07:13

BALLOON TYPE 1200 Gram: Keymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 308121540
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: partly cloudy

~ BURST PRESSURE (mb): _____

Alt: 34.37 km

REMARKS: _____

weighoff = _____ grams

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