

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

FLT # H4675

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3/19/2011 PUMP CURRENT: 99.50 mA 30 MINUTES HI O₃ (v)
INITIALS: SKH PUMP PRESSURE: 511 5 MINUTE NO O₃ (v)
PUMP NUMBER: 279731 v20 PUMP VACUUM: 522
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: = 62 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/2/2011 INITIALS: WTC
Cathode solution date written on bottle: (v)
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1= 0.006 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)
T100 FLOWRATE TIMES:
FLOWRATE #1: 29.62 sec
FLOWRATE #2: 29.69
FLOWRATE #3: 29.70
FLOWRATE #4: 29.72
FLOWRATE #5: 29.63
AVERAGE T100: 29.67
DRY T100
#1: 27.87
#2: 27.61
#3: 27.64
DRY AVG: 27.71
WET T100
#1: 28.28
#2: 28.27
#3: 28.28
WET AVG: 28.28

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 29.38 sec.

RECORD: ROOM TEMP (C) 20.6 ROOM REL. HUMID. (%) 32

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 2.05%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: ~~H4675~~ H4675

GMT DATE: 4/2/2011

LOCAL DATE: 4/2/2011

GMT LAUNCH TIME: _____

LOCAL TIME: _____

BALLOON TYPE 1000 Gram: Kaymont Scientific Sales _____ (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 144455307

SKY CONDITIONS: Clear

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): _____

Alt: 31.24

REMARKS: _____

weighoff = _____ grams

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