

Payload Plan

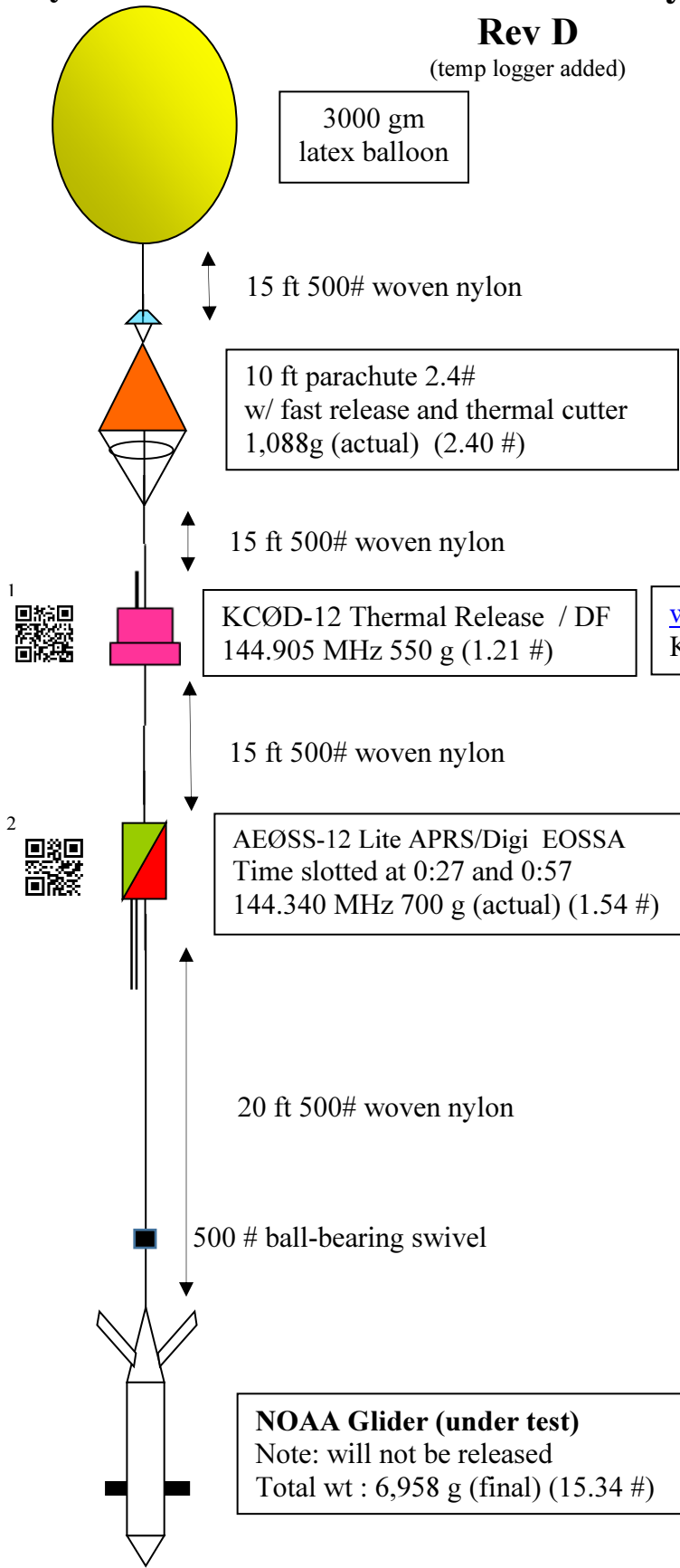
EOSS-299 Heavy

0630 MDT, 30 May 2020

Rev D

Deer Trail, CO

(temp logger added)



3000 gm
latex balloon

15 ft 500# woven nylon

10 ft parachute 2.4#
w/ fast release and thermal cutter
1,088g (actual) (2.40 #)

15 ft 500# woven nylon

KCØD-12 Thermal Release / DF
144.905 MHz 550 g (1.21 #)

www.wxqa.com/sss/balon1.cgi
KCØD-12 / EOSS-299

15 ft 500# woven nylon

AEØSS-12 Lite APRS/Digi EOSSA
Time slotted at 0:27 and 0:57
144.340 MHz 700 g (actual) (1.54 #)

www.wxqa.com/sss/balon1.cgi
AEØSS-12 / EOSS-299

20 ft 500# woven nylon

500 # ball-bearing swivel

NOAA Glider (under test)
Note: will not be released
Total wt : 6,958 g (final) (15.34 #)

Item	Weight pounds	Weight kg
Student Payloads	15.34	6.958
EOSS Payloads	2.76	1.25
Parachute	2.40	1.088
Neck load	20.49	9.296
Balloon	6.61	3.000
Gross Weight	27.11	12.296
Gross Lift Factor	1.18	1.18
Neck Lift	25.37	11.507
H2 fill; scf (approx)	432	
Burst Altitude; kft km	104.7	31.9

Cutdown at 95,000 feet MSL
Ascent: 1,280 fpm to 47,350 ft, then 797 fpm

¹ www.aprs.fi/kc0d-12 (that is a zero)
² www.aprs.fi/ae0ss-12 (that is a zero)