

Payload Plan

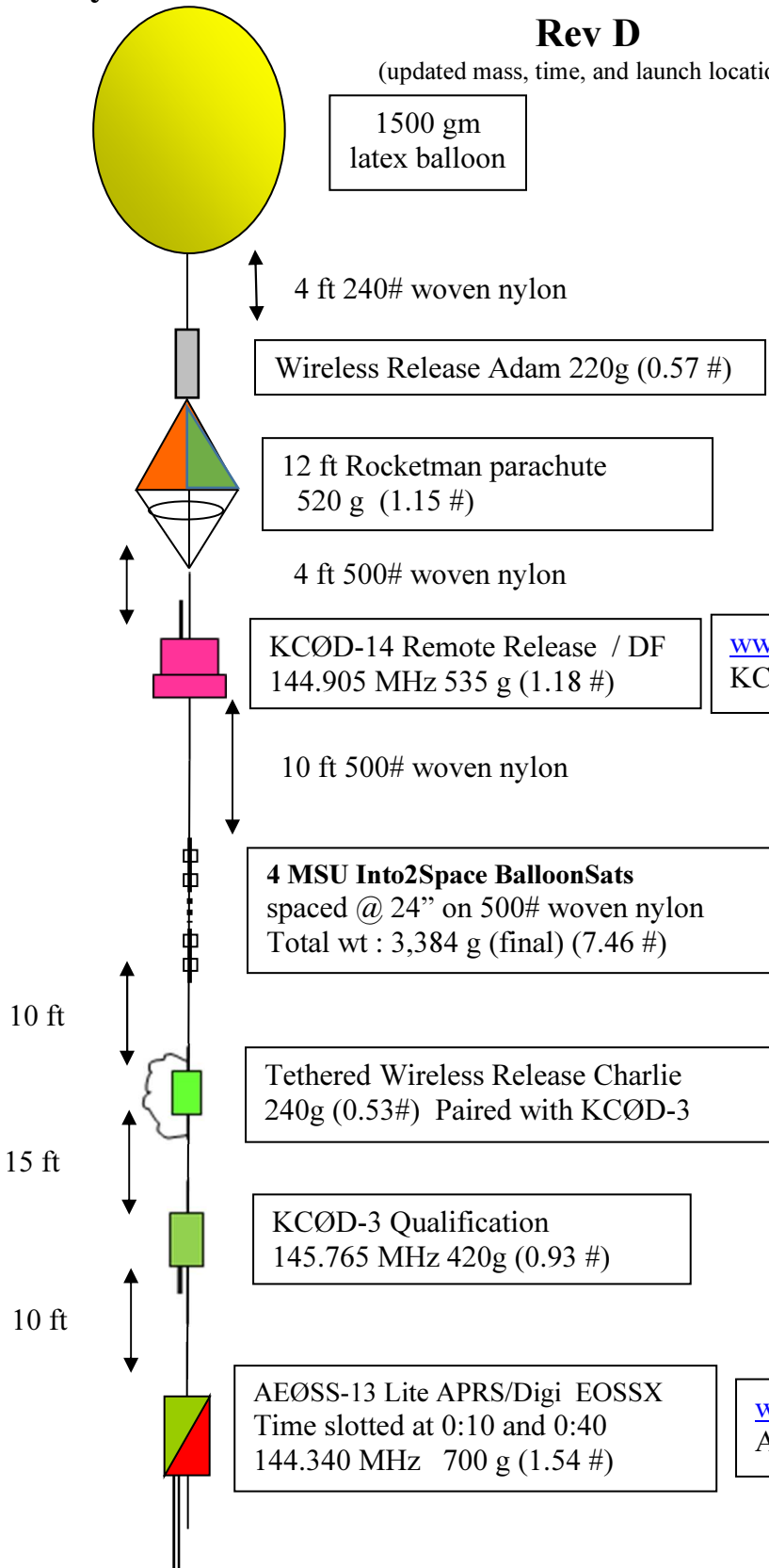
EOSS-303 Lite

0700 MST, 01 Nov 2020

Rev D

Wiggins, CO

(updated mass, time, and launch location)



1500 gm latex balloon

4 ft 240# woven nylon
Wireless Release Adam 220g (0.57 #)

12 ft Rocketman parachute 520 g (1.15 #)

4 ft 500# woven nylon
KCØD-14 Remote Release / DF 144.905 MHz 535 g (1.18 #)

www.wxqa.com/sss/balon1.cgi
KCØD-14 / EOSS-303

10 ft 500# woven nylon
4 MSU Into2Space BalloonSats spaced @ 24" on 500# woven nylon Total wt : 3,384 g (final) (7.46 #)

- Power Puff Boys
- Under Pressure
- Space Creamery
- Moon Men

15 ft
Tethered Wireless Release Charlie 240g (0.53#) Paired with KCØD-3

10 ft
KCØD-3 Qualification 145.765 MHz 420g (0.93 #)

AEØSS-13 Lite APRS/Digi EOSSX Time slotted at 0:10 and 0:40 144.340 MHz 700 g (1.54 #)

www.wxqa.com/sss/balon1.cgi
AEØSS-13 / EOSS-303

Item	Weight pounds	Weight kg
Student Experiments	7.46	3.384
EOSS Payloads	4.18	1.895
Parachute	1.63	0.740
Neck load	13.27	6.019
Balloon	3.31	1.500
Gross Weight	16.58	7.519
Gross Lift Factor	1.25	1.25
Neck Lift	17.41	7.897
H2 fill; scf (approx)	280	
Burst Altitude; kft km	93.5	28.5