

Payload Plan

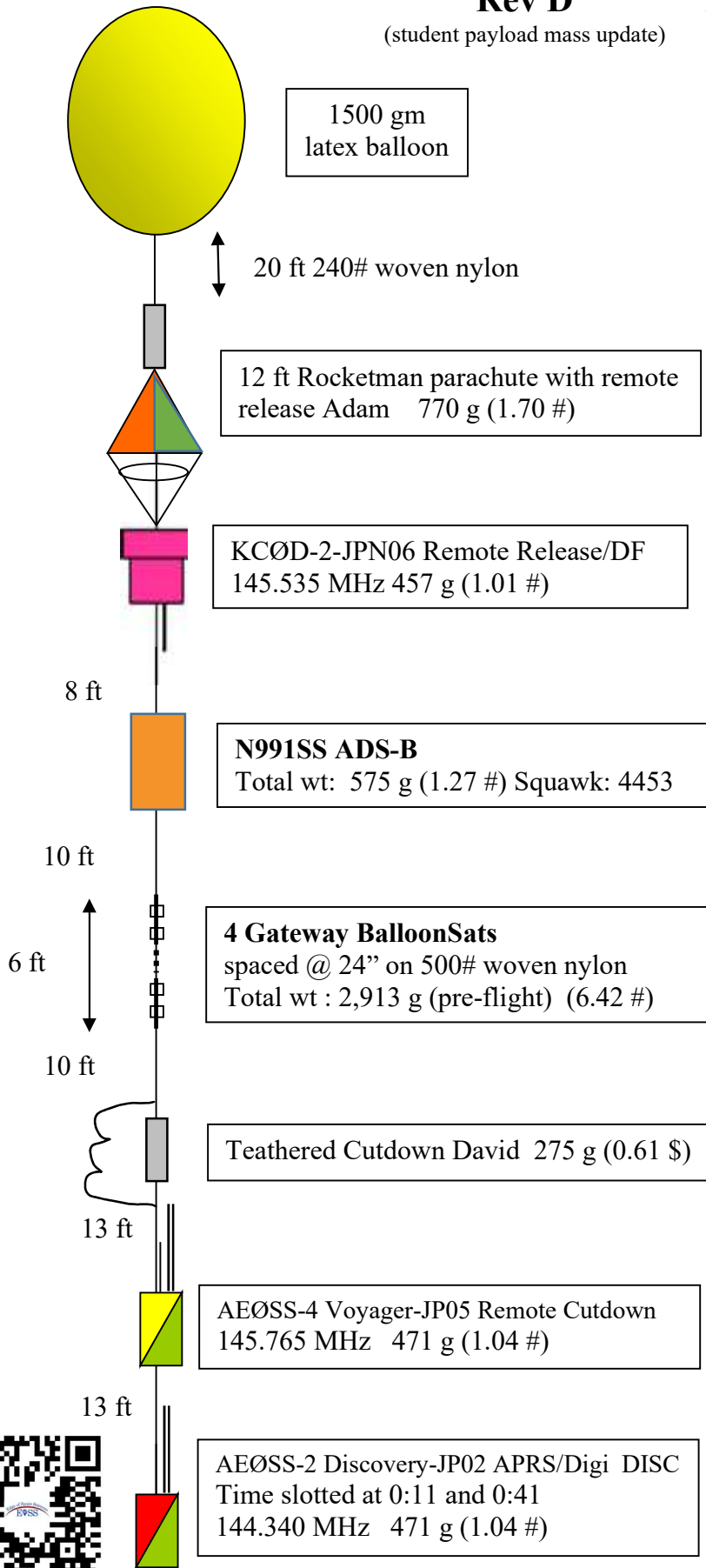
EOSS-361 Lite

0800 MDT, 03 AUG 2024

Rev D

Limon Softball Fields

(student payload mass update)



1500 gm latex balloon

20 ft 240# woven nylon

12 ft Rocketman parachute with remote release Adam 770 g (1.70 #)

KCØD-2-JPN06 Remote Release/DF
145.535 MHz 457 g (1.01 #)

8 ft

N991SS ADS-B
Total wt: 575 g (1.27 #) Squawk: 4453

10 ft

4 Gateway BalloonSats
spaced @ 24" on 500# woven nylon
Total wt : 2,913 g (pre-flight) (6.42 #)

Imaging Payload
CU kit
UCCS Spring Payload
CSU

6 ft

10 ft

Teathered Cutdown David 275 g (0.61 #)

Rev D NOTE: CSU payload on the bottom of flight string

13 ft

AEØSS-4 Voyager-JP05 Remote Cutdown
145.765 MHz 471 g (1.04 #)

13 ft

AEØSS-2 Discovery-JP02 APRS/Digi DISC
Time slotted at 0:11 and 0:41
144.340 MHz 471 g (1.04 #)

Item	Weight pounds	Weight kg
Student Experiments	6.42	2.913
EOSS Payloads	5.02	2.277
Parachute	1.70	0.770
Neck load	13.14	5.960
Balloon	3.31	1.500
Gross Weight	16.45	7.460
Gross Lift Factor	1.30	1.30
Neck Lift	18.07	8.197
H2 fill; scf (approx)	289	
Burst Altitude; kft km	92.8	28.3
Manual Release Altitude kft	90.8	

www.wxqa.com/sss/balon1.cgi
KCØD-2 / EOSS-361

www.wxqa.com/sss/balon1.cgi
AEØSS-2 / EOSS-361

