

# Payload Plan

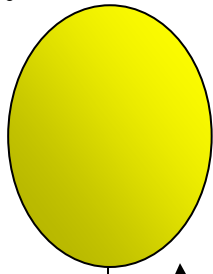
# EOSS-304 Lite

0720 MST, 01 Nov 2020

## Rev D

Wiggins, CO

(updated mass, new time & launch site)



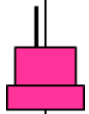
1500 gm latex balloon

4 ft 250# woven nylon

Wireless Release Baker 261g (0.57 #)



12 ft Rocketman parachute 12A 520 g (1.15 #)



KCØD-1 Remote Release / DF 145.645 MHz 520 g (1.15 #)

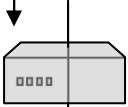
[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KCØD-1 / EOSS-303

10 ft 500# woven nylon

**3 MSU Intro to Space BalloonSats**  
spaced @ 24" on 500# woven nylon  
Total wt : 2,665 g (final) (5.88 #)

- Spudnik
- Space Bennies
- Corona

5 ft



**MSU Senior Engineering Design DemoSat**  
with 900 MHz transiever  
Total wt : 735 g (final) (1.62 #)

CubesatSim\*

5 ft



MSU Equipment Test 514g (final) (1.13 #)

10 ft 500# woven nylon



KØSCC-14 APRS/Digi EOSSD  
Time slotted at 0:07 and 0:37  
144.340 MHz 700 g (1.54 #)

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KØSCC-14 / EOSS-303

Item	Weight pounds	Weight kg
MSU Experiments	8.63	3.914
EOSS Payloads	2.69	1.220
Parachute	1.72	0.781
Neck load	13.04	5.915
Balloon	3.31	1.500
Gross Weight	16.35	7.415
Gross Lift Factor	1.25	1.25
Neck Lift	17.13	7.767
H2 fill; scf (approx)	276	
Burst Altitude; kft km	93.7	28.6