

# Payload Plan

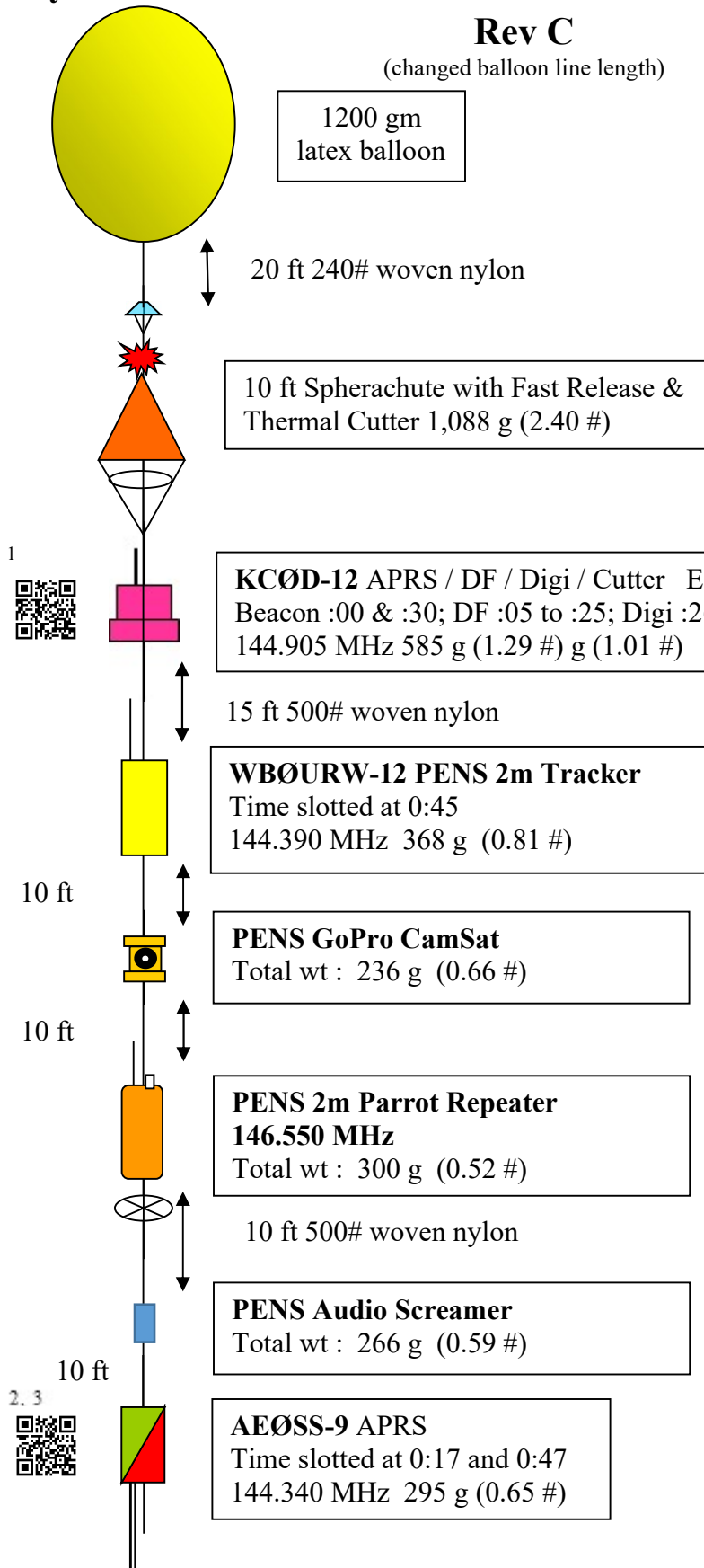
## EOSS-343-1200

### Rev C

(changed balloon line length)

## 0800 CDT, 17 Jun 2023

### Huntsville, AL



1200 gm latex balloon

20 ft 240# woven nylon

10 ft Spherachute with Fast Release & Thermal Cutter 1,088 g (2.40 #)

**KCØD-12 APRS / DF / Digi / Cutter EOSSC**  
 Beacon :00 & :30; DF :05 to :25; Digi :26 to :59  
 144.905 MHz 585 g (1.29 #) g (1.01 #)

15 ft 500# woven nylon

**WBØURW-12 PENS 2m Tracker**  
 Time slotted at 0:45  
 144.390 MHz 368 g (0.81 #)

**PENS GoPro CamSat**  
 Total wt : 236 g (0.66 #)

**PENS 2m Parrot Repeater**  
**146.550 MHz**  
 Total wt : 300 g (0.52 #)

10 ft 500# woven nylon

**PENS Audio Screamer**  
 Total wt : 266 g (0.59 #)

**AEØSS-9 APRS**  
 Time slotted at 0:17 and 0:47  
 144.340 MHz 295 g (0.65 #)

Item	Weight pounds	Weight kg
Student Experiments	3.13	1.420
EOSS Payloads	2.87	1.300
Parachute	2.40	1.088
Neck load	8.40	3.808
Balloon	2.65	1.200
Gross Weight	11.04	5.008
Gross Lift Factor	1.32	1.32
Neck Lift	11.93	5.410
H2 fill; scf (approx)	197	
Burst Altitude; kft km	95.2	29.0

<sup>1</sup> [www.aprs.fi/ke0bmv-11](http://www.aprs.fi/ke0bmv-11) (that is a zero)

<sup>2</sup> <http://www.aprs.fi/ae0ss-9> (that is a zero)

<sup>3</sup> <https://track.eoss.org>