

# Payload Plan

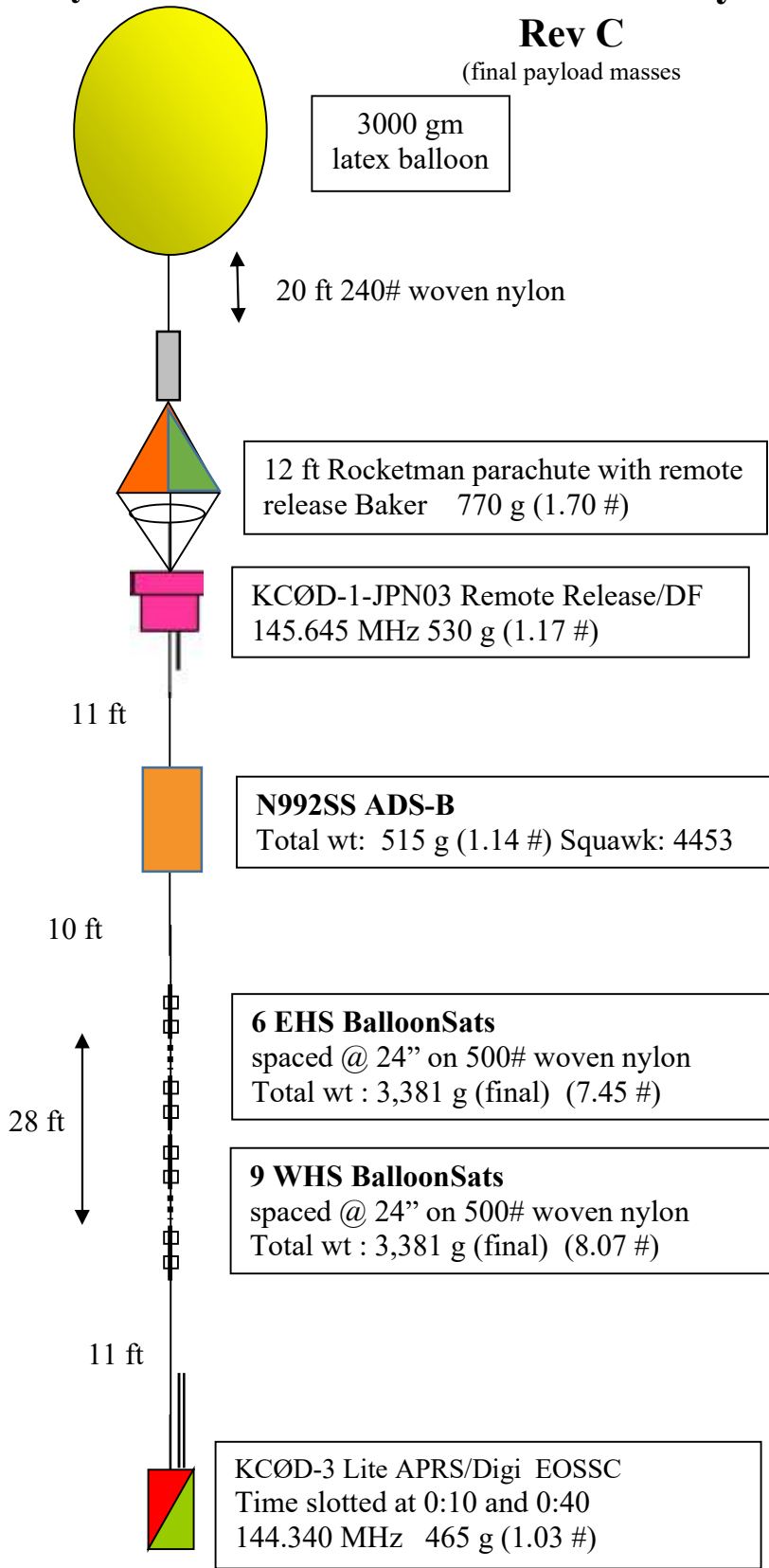
# EOSS-352 Heavy

0720 MST, 02 DEC 2023

## Rev C

## Deer Trail, CO

(final payload masses)



3000 gm latex balloon

20 ft 240# woven nylon

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

KCØD-1-JPN03 Remote Release/DF 145.645 MHz 530 g (1.17 #)

**N992SS ADS-B**  
Total wt: 515 g (1.14 #) Squawk: 4453

**6 EHS BalloonSats**  
spaced @ 24" on 500# woven nylon  
Total wt : 3,381 g (final) (7.45 #)

**9 WHS BalloonSats**  
spaced @ 24" on 500# woven nylon  
Total wt : 3,381 g (final) (8.07 #)

KCØD-3 Lite APRS/Digi EOSSC  
Time slotted at 0:10 and 0:40  
144.340 MHz 465 g (1.03 #)

| Item                               | Weight pounds | Weight kg |
|------------------------------------|---------------|-----------|
| Student Experiments                | 15.52         | 7.041     |
| EOSS Payloads                      | 3.33          | 1.510     |
| Parachute                          | 1.70          | 0.770     |
| Neck load                          | 20.55         | 9.321     |
| Balloon                            | 6.61          | 3.000     |
| Gross Weight                       | 27.16         | 12.321    |
| Gross Lift Factor                  | 1.20          | 1.20      |
| Neck Lift                          | 25.98         | 11.783    |
| H2 fill; scf (approx)              | 440           |           |
| Burst Altitude; kft km             | 104.3         | 31.8      |
| <b>Manual Release Altitude kft</b> | <b>102.0</b>  |           |

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KCØD-1 / EOSS-352

- Payload Order (top to bottom):
- WHS 4
  - WHS 2
  - WHS 5
  - WHS 3
  - WHS 1
  - WHS 6
  - WHS 7
  - EHS 1
  - EHS 4
  - EHS 6
  - EHS 2
  - EHS 3
  - EHS 5
  - WHS 9
  - WHS 8

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KCØD-3 / EOSS-352

