

COMET said CNAV move was:

24APR2013

CNAV antenna move

1" inboard = 25.4 mm move in port direction

25/8" down = 66.675 mm move down

so, from BM on mast

X → no move forward-aft 180mm

Port-Stbd Stbd moved port
Y → 3105 mm - 25.4 mm = 3079.6 mm

UP-Down up moved down
Z → 380 mm - 66.675 mm = 313.325 mm

31 cm

I should measure X = 18 cm forward
Y = 308 cm stbd
Z = 31 cm up

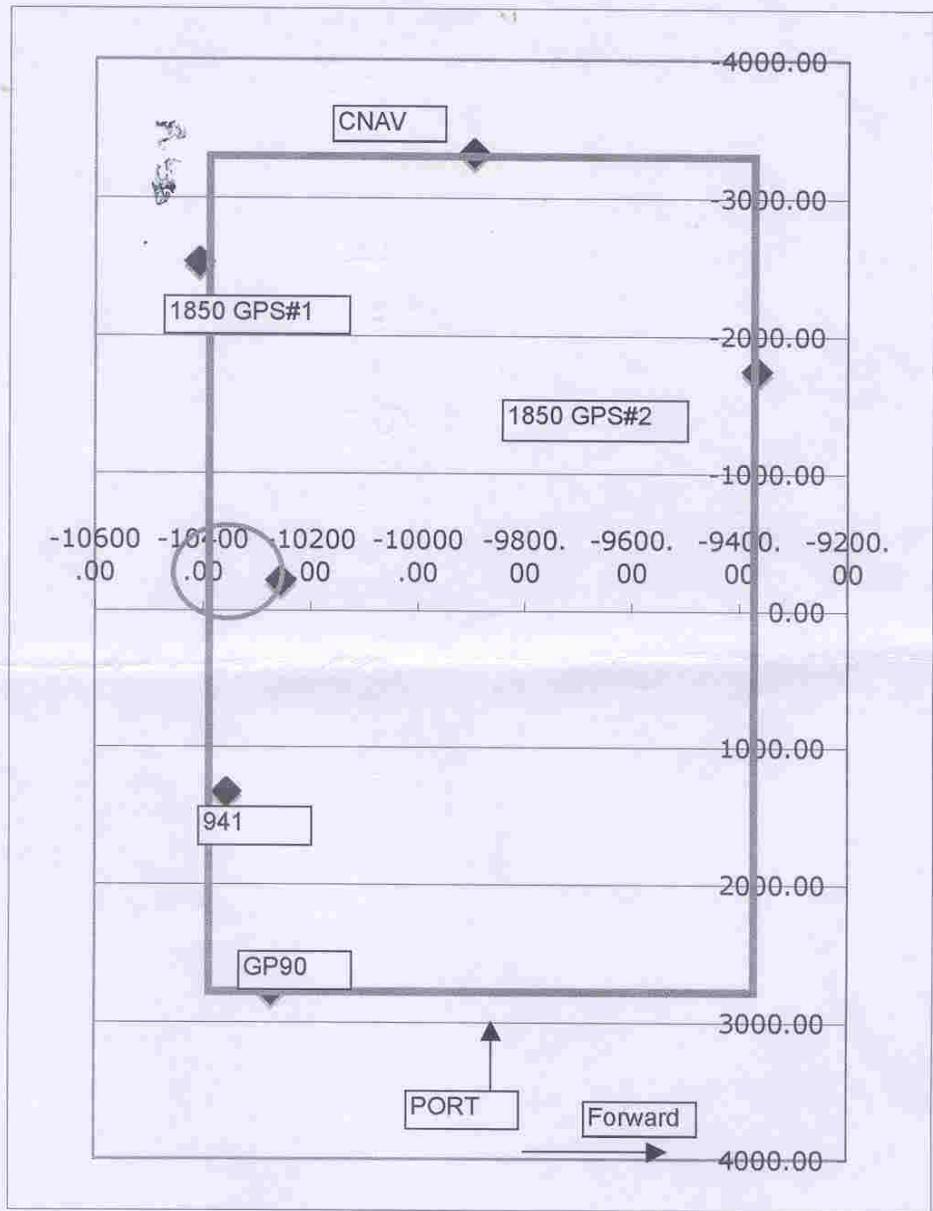
My measurements were

3 cm

X = 21 cm Δ 3 cm

Y = 306 cm Δ 2 cm

Z = 31 cm Δ 0



Bow mast to GPS antennae

1850 :

Z [BM down to ^{top} rail]

20.5 cm

Z [1850 to top of rail]

- 20.0 cm

0.5 cm

lower
5 mm ~~top~~

Δ 3 mm

X [1850 to fwd from BM]

- 30 cm

(ie it's aft)

300 mm
Δ 25 mm

Y [1850 is stbd of mast BM]

235 cm

2350 mm

Δ = ~~15~~ mm
40

CNAV :

Z [CNAV is 51.5 cm up from top of railing]

~~50.5~~
51.5 cm

Z
310 mm

Z [BM is 20.5 cm up from top of railing]

- 20.5 cm

31.0 cm

Y [CNAV is 10 cm stbd of rail (inside)]

inside rail is 284 cm stbd of edge of mast

mast radius is 11.5 cm

$$10 + 284 + 11.5 = 305.5$$

Y
3060 mm

second time measured I got 306.5

X [CNAV is 41.5 cm forward of rail]

$\frac{41.5}{20.5} \times 21.0$
210 mm

BM on Bow mast is 20.5 cm fwd of inside rail

CNAV move according to my measurements

X	was 180 mm.	moved to	30 mm	10% of BM forward
Y	was 3060 now 3105 mm	- $\frac{3105}{3060}$	45	moved 45 mm inboard
Z	was 380 mm	▲ 70 mm	moved down 70 mm	
	now 310 mm			

survey X + forward
Y + Stbd
Z + down

214.5
+ 9.5
+ 11.5
= 335.0
55cm inboard

REV 1 - TABLE 5 More Allison Stuff			
LOCATION	X (mm)	Y(mm)	Z(mm)
CNAV antenna	-9896.32	-3329.94	-27465.80
1850 antenna	-10408.16	-2537.80	-27082.83
GP90D-GPS	-10272.33	2760.42	-27854.81
move aft	move stbd	move down	
1850 from CN	-0.51	PORT 0.79	0.38
	-10.70	Y 4.40	27.76
	210 mm	3050	310 mm
CNAV antenna	move aft	move stbd	move down
	-180.00	3105.00	380.00
MAST Position	-10076.32	-224.94	-27085.80
GP90 to mat	move forward	move port	move down
	215.00	-2980.00	725.00
MAST Position	-10057.33	-219.58	-27129.81
delta cnav-bm	-18.99	-5.36	44.01
1850 antenna	move forward	move stbd	move up
	325.00	32310.00	-2.00
MAST Position	-10083.16	-227.80	-27084.83
delta cnav-bm	6.83	2.86	-0.97

45.5
24.5
21.0 cm
Fwd
2 to get to mast BM
measurements
GP90 up rail 55.5
20.5
35
measurements
*197 cm = distance deck to GP90, 120.7 cm distance deck
difference in mm compared to CNAV located

ORIGIN	-27565.91	172.35	-2769.14
LOCATION	X (mm)	Y(mm)	Z(mm)
CNAV antenna	-37462.23	-3157.60	-30234.94
1850 antenna	-37974.06	-2365.46	-29851.97
GP90D-GPS	-37838.24	2932.77	-30623.95
1850 from CNAV			
CNAV antenna to mast benchmark			
MAST Position	-37642.23	-27790.85	-54651.70
GP90 to mat benchmark			
MAST Position	-37623.24	-27785.49	-54695.72
delta cnav-bm position			
1850 antenna to mast benchmark			
MAST Position	-37649.06	-27793.71	-54650.74
delta cnav-bm position			

mast BM to antennae 20.5 cm down to top of rail

CNAV antenna moved
3050.4
26.4
3075.4 according to ComET it moved

1" inboard & 25/8" down from
stbd original position

25.4 mm inboard 66.675 mm down
from Mast Benchmark to CNAV now

forward 180.00 (mm) not as far port
lower port = 3105.00 - 25.4 mm = 3079.6 mm
→ down = 380.00 - 66.675 = 313.325 mm

1850 ~~stbd~~ → 2327 cm
up from rail 20cm
fwd -30cm

310
675
3mm

24.5
11.5
3055