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01. Spand: 24th GHz

Taking operating frequency = 2 b. Mr.

Doppler shift = Id = 20 yeles record = 2016

s. Relative velocity - Vy =

Fdxc = 20x8x10° mg

= 1.5 m/s.

frequency of FMCW lidar

(Pa) = 126Mz

Phase variation = Exx 22dx 2x

- 12 RIO 9 R 2 N O . SN 10 - 3 X 2 X

= 0.04 yadiga x m rad. = 0.251 rad

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21. Ant 2 - 40 and 3

: fandwidth = (40-26.5) = 13.56 Mz = B

Lange verolition = Is
= 3410

= 3410 m 2×12-54109

- 0.011 m

dres = 0.011 m

Large resolution 2 78 given chirps ave same, the resolution will he same.