

Kempston

15 Aug 59

Gyro Frequency = 2800 H_{CGS} Kilocycles

$$H = \frac{520}{2800} = .1859 \text{ CGS magnetic units}$$

.1852 at Lat 34°18'S 2820 Km for 520 KC gyro level

$$H = \frac{145}{2800} = .0518 \text{ CGS magnetic units}$$

.0574 at Lat 23°01'S 6447 Km

.0502 at Lat 31°23'S 6885 Km

.0072 438 Km

$$\frac{.0518}{.0502} \frac{.0016}{.0072} \times 438 = 97 \text{ km}$$

6885 - 97 = 6788 km for 145 K gyro level.

$$H = \frac{50}{2800} = .0179 \text{ CGS magnetic units}$$

.0187 at Lat 4°5'S 10,703 km

.0176 at Lat 2°14'S 10,942 Km

.0011 239 km

$$\frac{.0179}{.0176} \times 239 = 65 \text{ km}$$

10942 - 65 = 10877 km for 50 KC gyro level