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|---|--|--------------------------------|---------------------------------------|
| 1 Estimated position at the time of fix: | | Navigator | |
| DR/EP: | Lat. $\circ \quad ' \quad ''$ | Long. $\circ \quad ' \quad ''$ | Height of eye \quad m/ft |
| 2 Convert Dates/Times: | Year \quad month \quad d \quad h \quad m \quad s | Index Error $\quad ' \quad ''$ | on arc $\quad -$ off arc $\quad +$ |
| Fix, local date and time | 20 | Course $\quad \circ T$ | Temp. $\quad \circ C/F$ |
| Zone correction, $\frac{W}{E} \frac{+}{-}$ ZT | | Speed \quad kn | Pressure \quad mb/in |
| Greenwich date & UT $\quad UT_f$ | 20 | Depart | To |
| Observations of | | | |
| Local date | 20 | 20 | 20 |
| | h m s | h m s | h m s |
| Local watch time \quad DWT | | | |
| Watch error, $\frac{fast}{slow} \frac{-}{+}$ DWE | | | |
| Local time | | | |
| Zone correction, $\frac{W}{E} \frac{+}{-}$ ZT | | | |
| UT (Greenwich date) \quad UT | () | () | () |
| UT of Fix \quad UT_f | | | |
| Fix $\frac{later}{earlier} \frac{+}{-}$ $UT_f - UT$ | | | |
| 3 GHAY: Table 4: | $\circ \quad ' \quad ''$ | $\circ \quad ' \quad ''$ | $\circ \quad ' \quad ''$ |
| Greenwich date (year, mth, I) | () | | |
| Day and hours (b) \quad d | | | |
| Minutes and seconds (c) | | | |
| Sum = (a) + (b) + (c) GHAY | | | |
| 4 AP longitude, $\frac{E}{W} \frac{+}{-}$ | | | |
| Sum | | | |
| $\pm 360^\circ$ if required | | | |
| GHAY + AP Long \quad LHAY | \circ | \circ | \circ |
| 5 Correct sextant altitudes: | $\quad ' \quad ''$ | $\quad ' \quad ''$ | $\quad ' \quad ''$ |
| Sextant altitude \quad H_s | . | . | . |
| Index error, $\frac{on\ arc}{off\ arc} \frac{-}{+}$ IE | . | . | . |
| Dip, Table 8a (ht \quad m/ft) \quad D | . | . | . |
| Sum \quad IE + D | . | . | . |
| Apparent altitude \quad H_a | . | . | . |
| Refraction, Table 8b (H_a) \quad R | . | . | . |
| and Table 8c (T, P, H_a) | (\circ ,) | (\circ ,) | (\circ ,) |
| Observed altitude \quad H_o | . | . | . |
| 6 Extract tabulated alt/az: | | | |
| (AP latitude, LHAY) \quad H_c | (\circ , \circ) | (\circ , \circ) | (\circ , \circ) |
| 7 Intercept = $H_o - H_c$ \quad p | . | . | . |
| Azimuth \quad Z_n | \circ | \circ | \circ |
| 8 (a) Motion of vessel: | | | |
| $\pm 360^\circ$ if required | | | |
| True track of vessel \quad C | | | |
| $Z_n - C$ \quad Rel. Z_n | | | |
| Table 1(DMG, Rel. Z_n) MOO | (nm) | (nm) | (nm) |
| (b) Motion of body: Table 2 | m s | m s | m s |
| (Lat, Z_n), \quad $UT_f - UT$ \quad MOB | . | . | . |
| (c) Precession & nutation: | | | |
| Table 5, (year, Lat, LHAY) | . | . | . |
| 9 Intercept, corrected | . | . | . |
| \quad $\frac{+}{-}$ towards/away \quad p | . | . | . |
| Azimuth (step 7) \quad Z_n | \circ | \circ | \circ |