

14 GLOBAL NAVIGATION SATELLITE SYSTEMS—STATIC SURVEYS

Asterisks (*) indicate problems that have partial answers given in Appendix G.

- 14.1** For a 25-km baseline using a dual-frequency receiver, (a) what static surveying method should be used, (b) for what time period should the baseline be observed, and (c) what epoch rate should be used?

(a) Static survey (b) 70 min (c) 15 sec

From Section 14.2.2: Baselines over 20 km should be surveyed using the static survey method. From Table 14.1 the length of the session with a dual-frequency receiver should be $20 + 2(25) = 70$ min. From Section 14.2.1, the epoch rate using the static survey method is typically set at 15 sec.

- 14.2*** When using the static surveying method, what is the minimum recommended length of the session required to observe a baseline that is 30-km long with a dual-frequency receiver?

From Table 14.1: **40 min** = 10 min + 1(30) min