

1. Transit                    048° (T)  
Variation                +007° W  
                                  055° (M)  
Compass reads        060° (C)  
Deviation                005° W
  
2. Local magnetic anomalies ( $\pm 15^\circ$ ) exist in this vicinity.
  
3. Ferrous metal and magnetic fields will affect the compass, for example:  
engines, instruments, speakers, mobile phones.
  
4. Pre-plan; check the chosen features are on the chart.  
Use near objects with a good angle of cut.  
Fixed objects are better than buoys.  
Keep away from ferrous metal and wiring when taking the bearings.  
Counteract motion of vessel with body and allow the compass card to settle.  
If using a fluxgate compass keep it horizontal.  
Take bearing on the beam last, as it will change the quickest.  
Remember to record the time and log reading and check depth.
  
5. a) Fluxgate (electronic) compass.  
b) Yes, but normally fitted with auto-correction device.
  
6. a) 285°(T)                b) 187°(T)  
c) 357°(T)                d) 147°(T)
  
7. a) 002°(M)                b) 168°(M)  
c) 277°(M)                d) 029°(M)