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Autore	Lagan Jack
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Birds; G: Reflected and Refracted Swells; H: The Wind: Land and Sea Breezes; I: The Water; PART 3 DO-IT-YOURSELF LO-TECH NAVIGATION; DEAD RECKONING; Improvising a Compass; The Watch Compass; The Dutchman's Log; The Home-brew Log-ship; LATITUDE; Kamals and Polar Sticks; The Astrolabe, the Cross-staff and the Backstaff; Improvising Quadrants; Latitude Using the Sun at Noon  
Latitude Using the Stars Making a Sun-shadow Board; LONGITUDE; The Ubiquitous Quartz Watch; Using the Sun at Noon; Using a Compass; Longitude by Polar Stick; A Minimalist Longitude using Kochab; A Combined Declination/EoT Table; PLUMBING THE DEPTHS; PART 4 SURVIVAL NAVIGATION; EMERGENCY KITS AND GRAB-BAGS; NOTES; RECOMMENDED FURTHER READING; Books; Websites; APPENDICES; Appendix 1: Quadrant Scale; Appendix 2: The Barefoot Navigator's Survival Kit; Appendix 3: Declination of Sun for Noon at Greenwich; Appendix 4: Declination of Sun (Small Version); Appendix 5: Schematic for Sun-shadow Board  
Appendix 6: Gnomon Settings for the Sun-shadow Board Appendix 7: Graph for the Equation of Time (EoT); Appendix 8: Small Graph for the Equation of Time (EoT); Appendix 9: The Beaufort Scale; Appendix 10: Global Position Emergency Locator; Appendix 11: Standard Time Zones; Appendix 12: World Ocean Currents; Appendix 13: Combined Table for Declination and Equation of Time (EoT); INDEX; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; Q; R; S; T; U; V; W; Z

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## Sommario/riassunto

The Barefoot Navigator is an unusual and fascinating exploration of the skills of navigation employed by the ancients and transferrable to the present day. The first half of the book investigates the navigation capabilities of seafarers long before modern navigation instruments or charts became available. For example, how did the Polynesians manage to populate an area of ocean larger than North America simply by analysing clouds, currents, wind direction, sun, stars and the flight patterns of ocean birds? And how did the Vikings routinely travel between Iceland, Greenland and Scandinavia - hug

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