SECTION 15

LOCAL GEODETIC SYSTEM-TO-WGS 84 DATUM SHIFTS

- $\Delta\phi$, $\Delta\lambda$, ΔH CONTOUR CHARTS FOR MAJOR DATUMS - *

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* THE $\Delta\phi$, $\Delta\lambda$, ΔH VALUES MAY BE USED IN THE FORMULAS:

$$\phi_{WGS\ 84} = \phi_{LGS} + \Delta\phi$$

$$\lambda_{WGS\ 84} = \lambda_{LGS} + \Delta\lambda$$

$$H_{WGS\ 84} = H_{LGS} + \Delta H$$

ϕ, λ, H = GEODETIC LATITUDE, LONGITUDE, HEIGHT
LGS = LOCAL GEODETIC SYSTEM

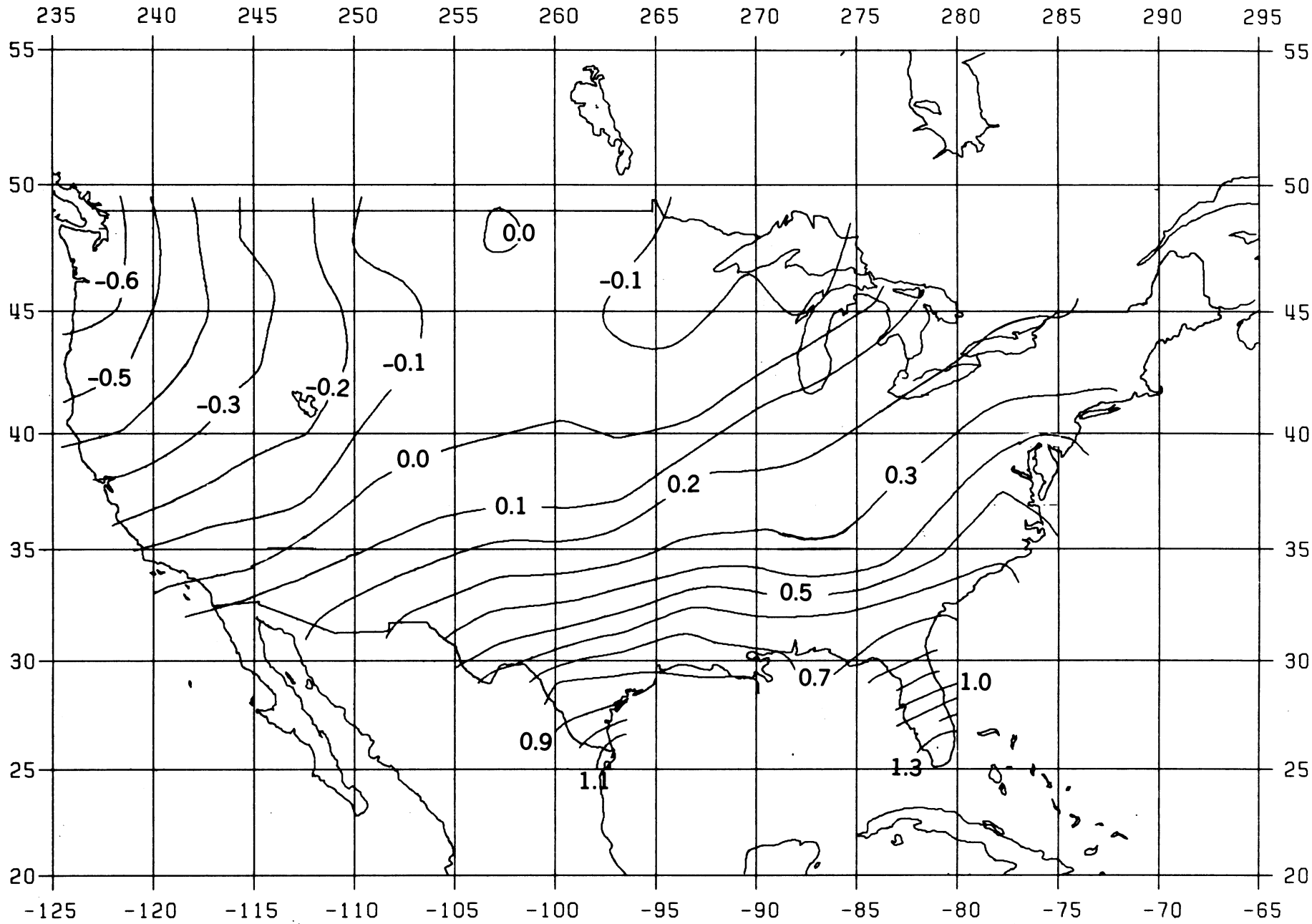

Figure 15.1. Contour Chart–Latitude Differences, WGS 84 Minus NAD 27 (CONUS; Contour Interval = 0.1 Arc Second)

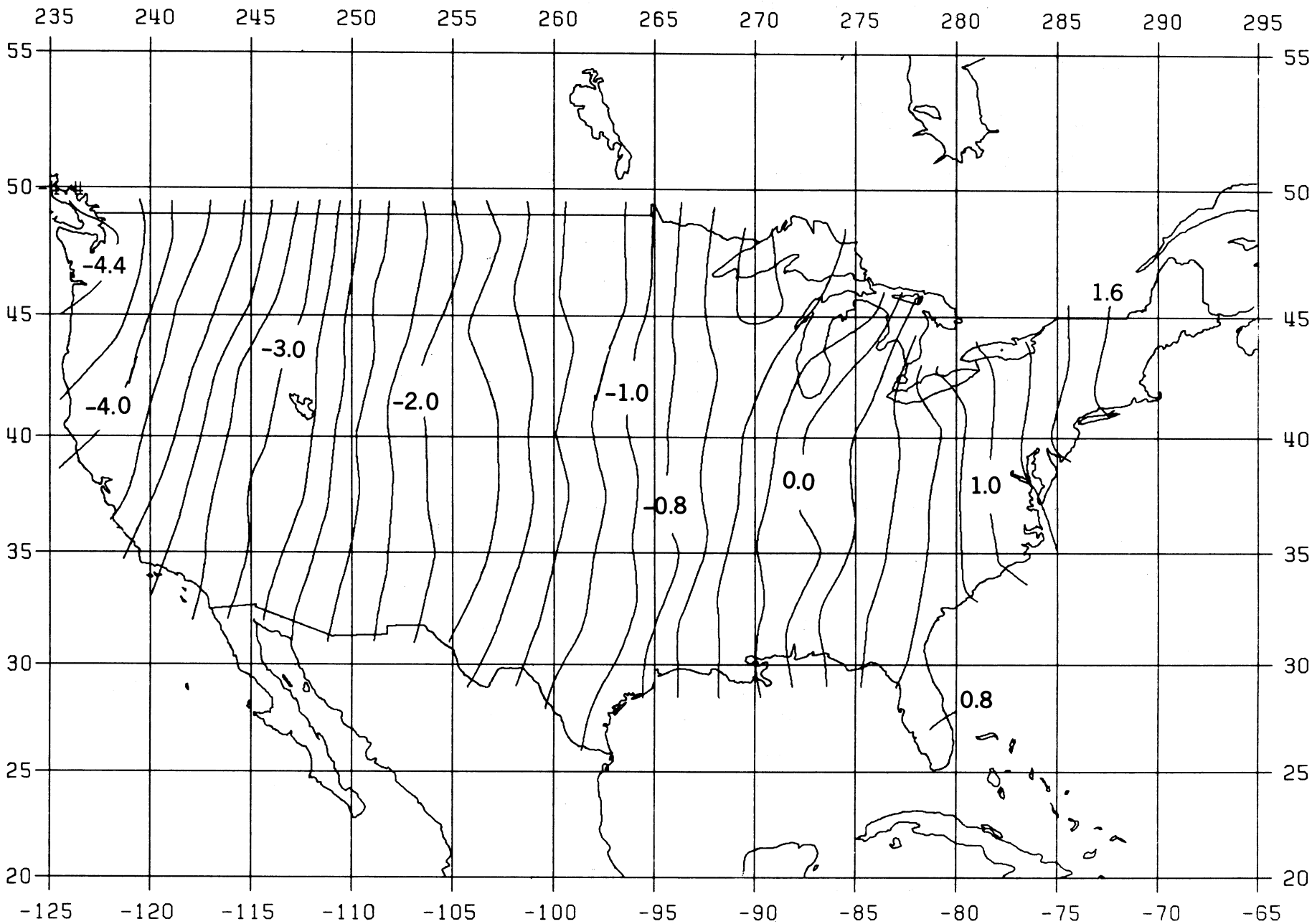

Figure 15.2. Contour Chart–Longitude Differences, WGS 84 Minus NAD 27 (CONUS; Contour Interval = 0.2 Arc Second)

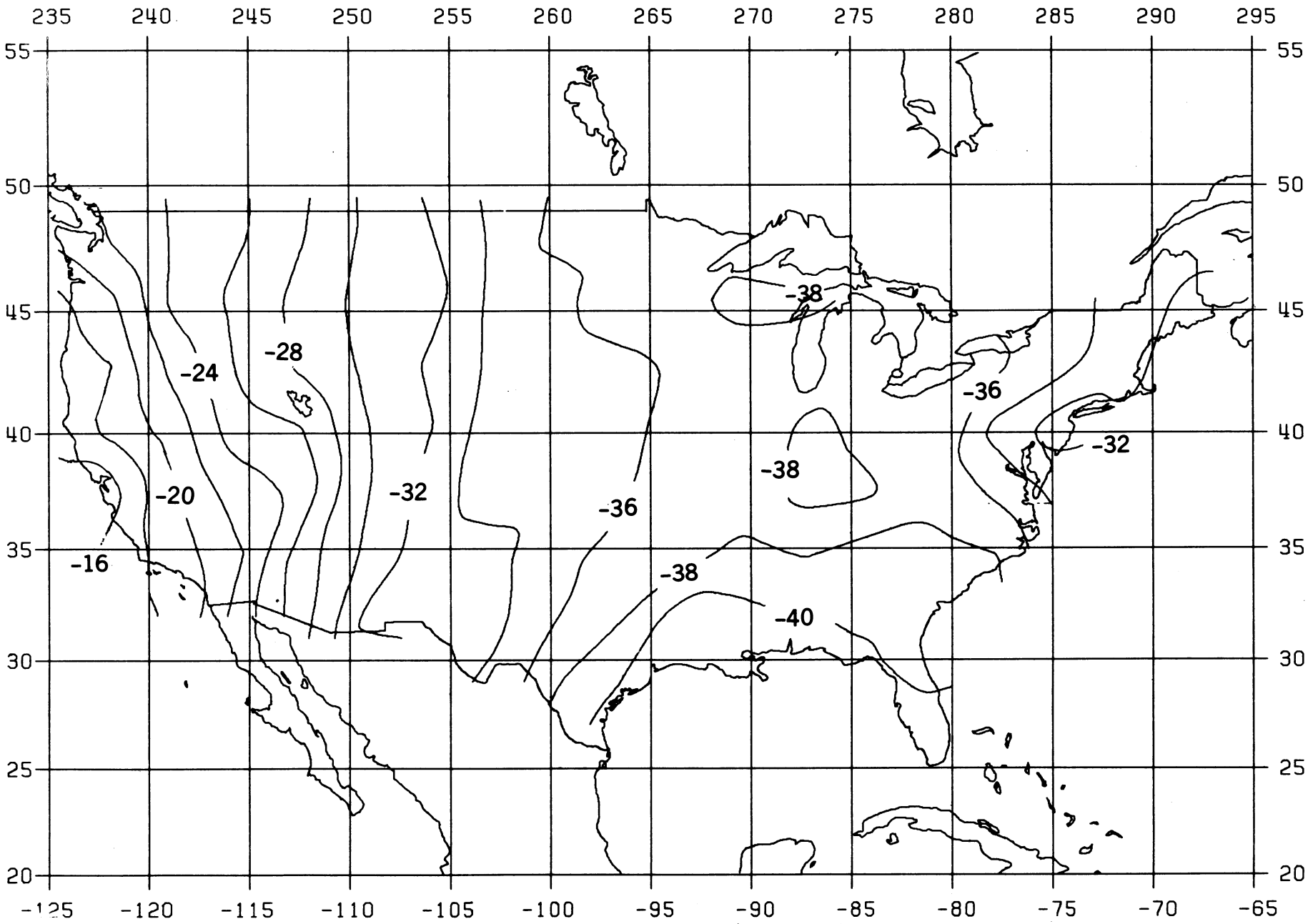

Figure 15.3. Contour Chart-Geodetic Height Differences, WGS 84 Minus NAD 27 (CONUS; Contour Interval = 2 Meters)

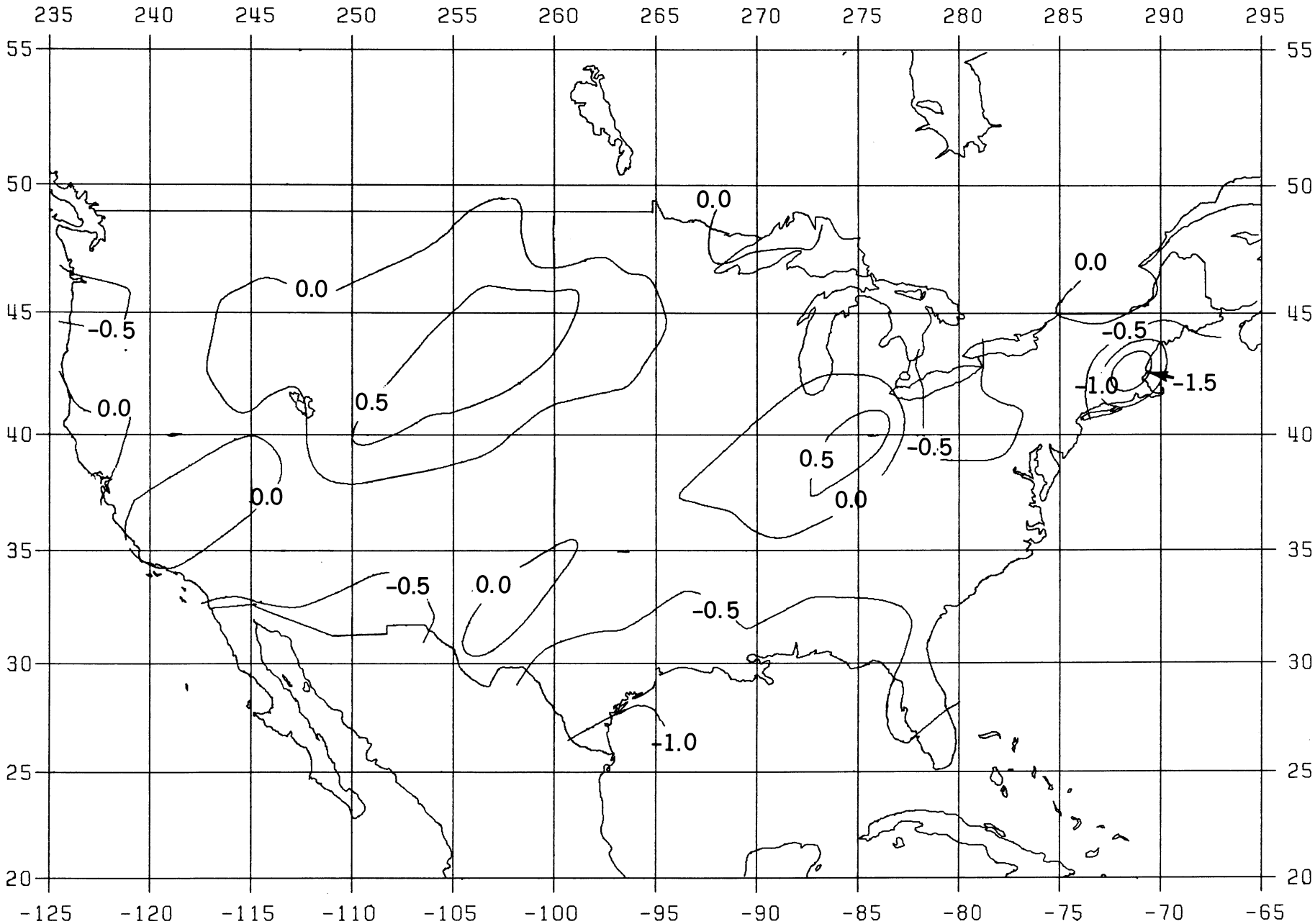

Figure 15.4. Contour Chart – Latitude Differences, WGS 84 Minus NAD 83 (CONUS; Contour Interval = 0.5 Meter)

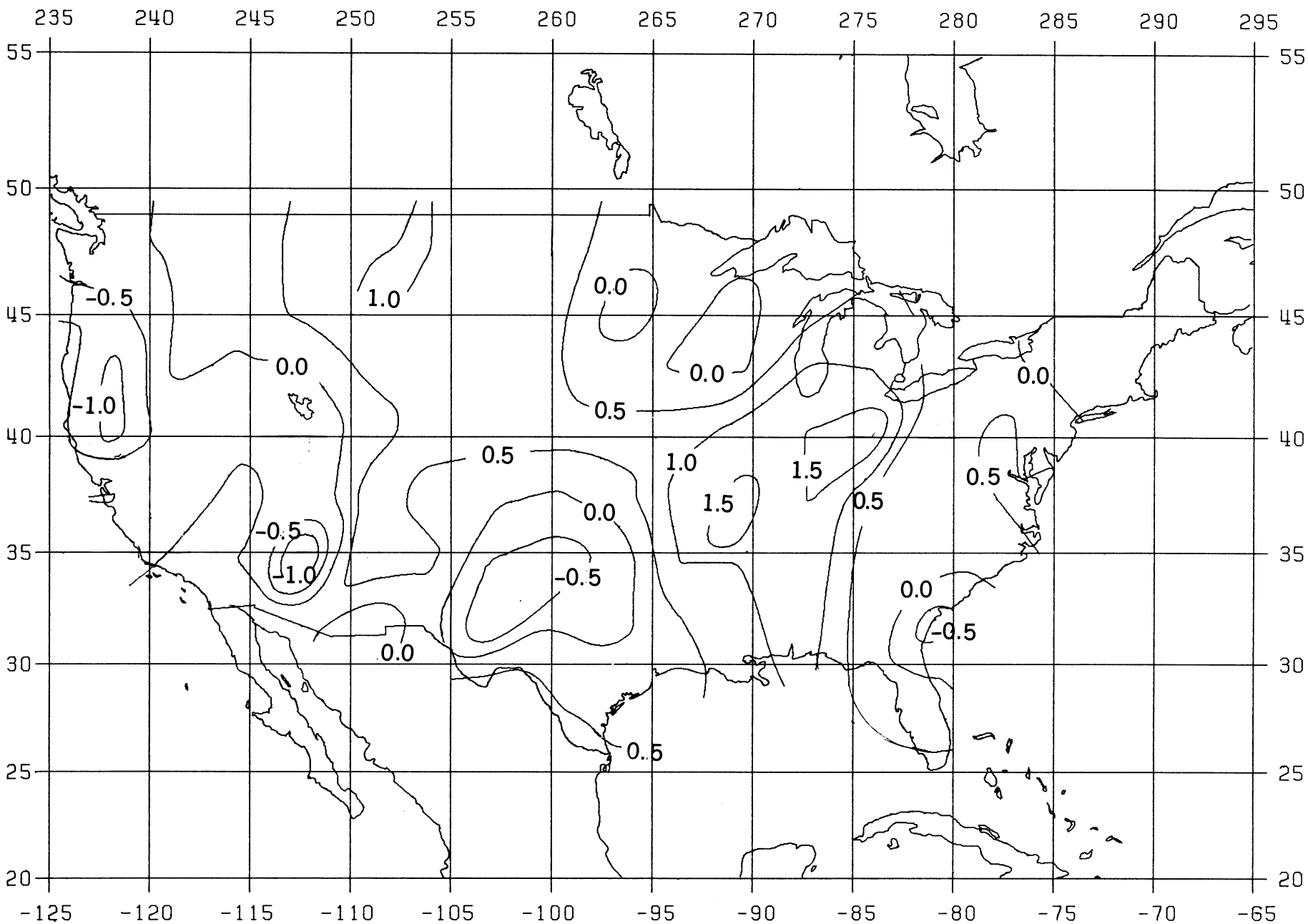

Figure 15.5. Contour Chart – Longitude Differences, WGS 84 Minus NAD 83 (CONUS; Contour Interval = 0.5 Meter)

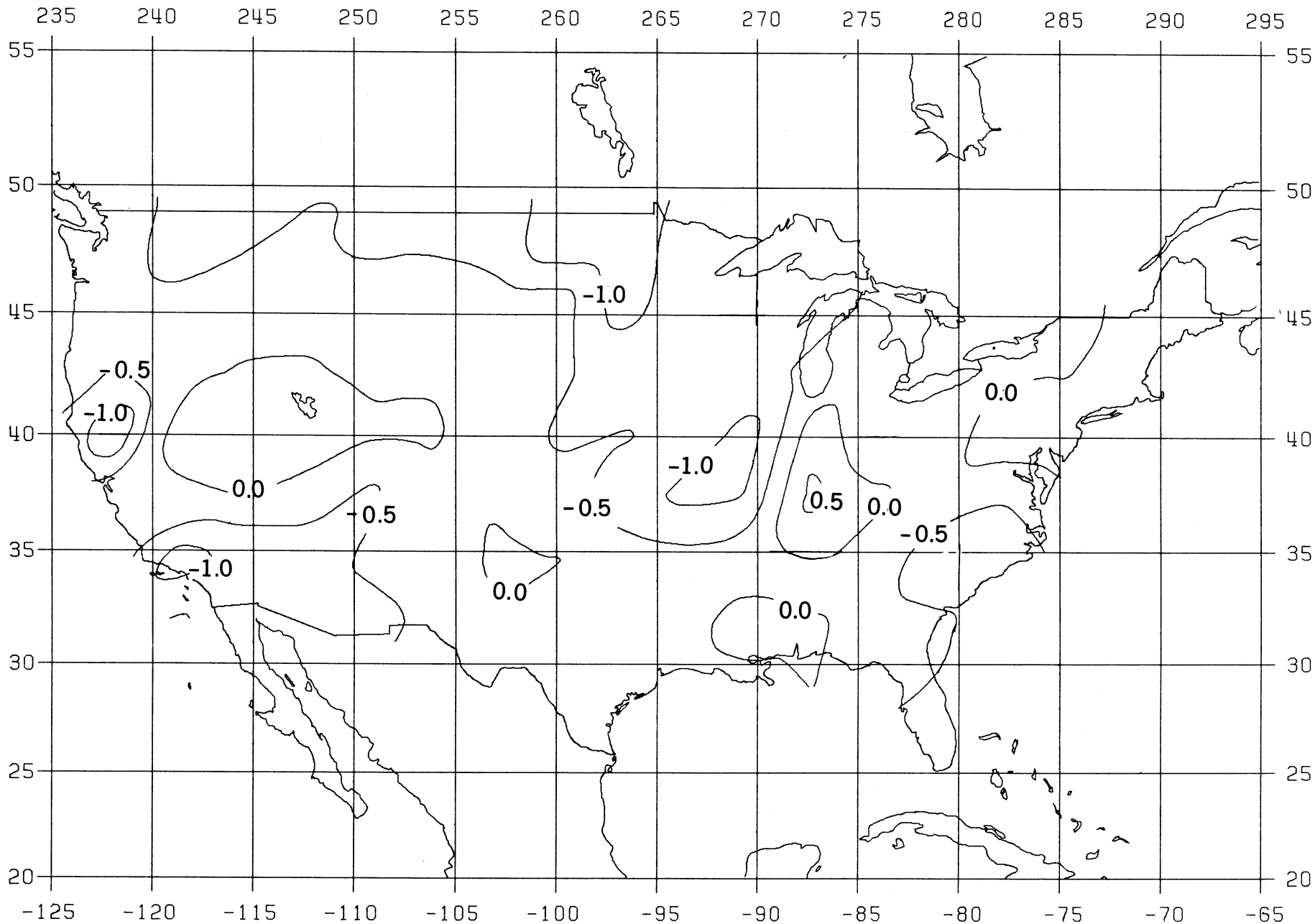

Figure 15.6. Contour Chart - Geodetic Height Differences, WGS 84 Minus NAD 83 (CONUS; Contour Interval = 0.5 Meter)

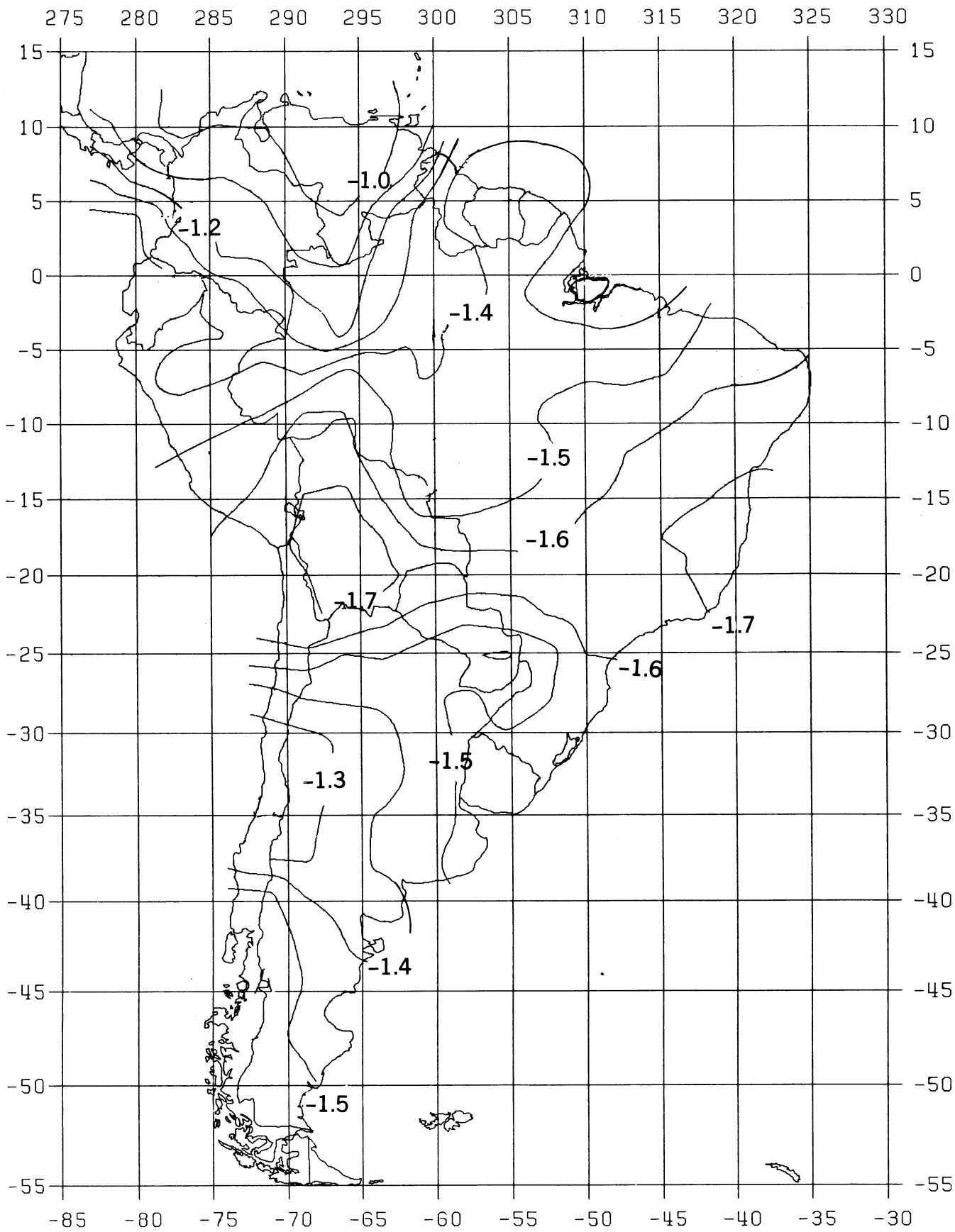

Figure 15.7 Contour Chart – Latitude Differences, WGS 84 Minus SAD 69 (Contour Interval = 0.1 Arc Second)

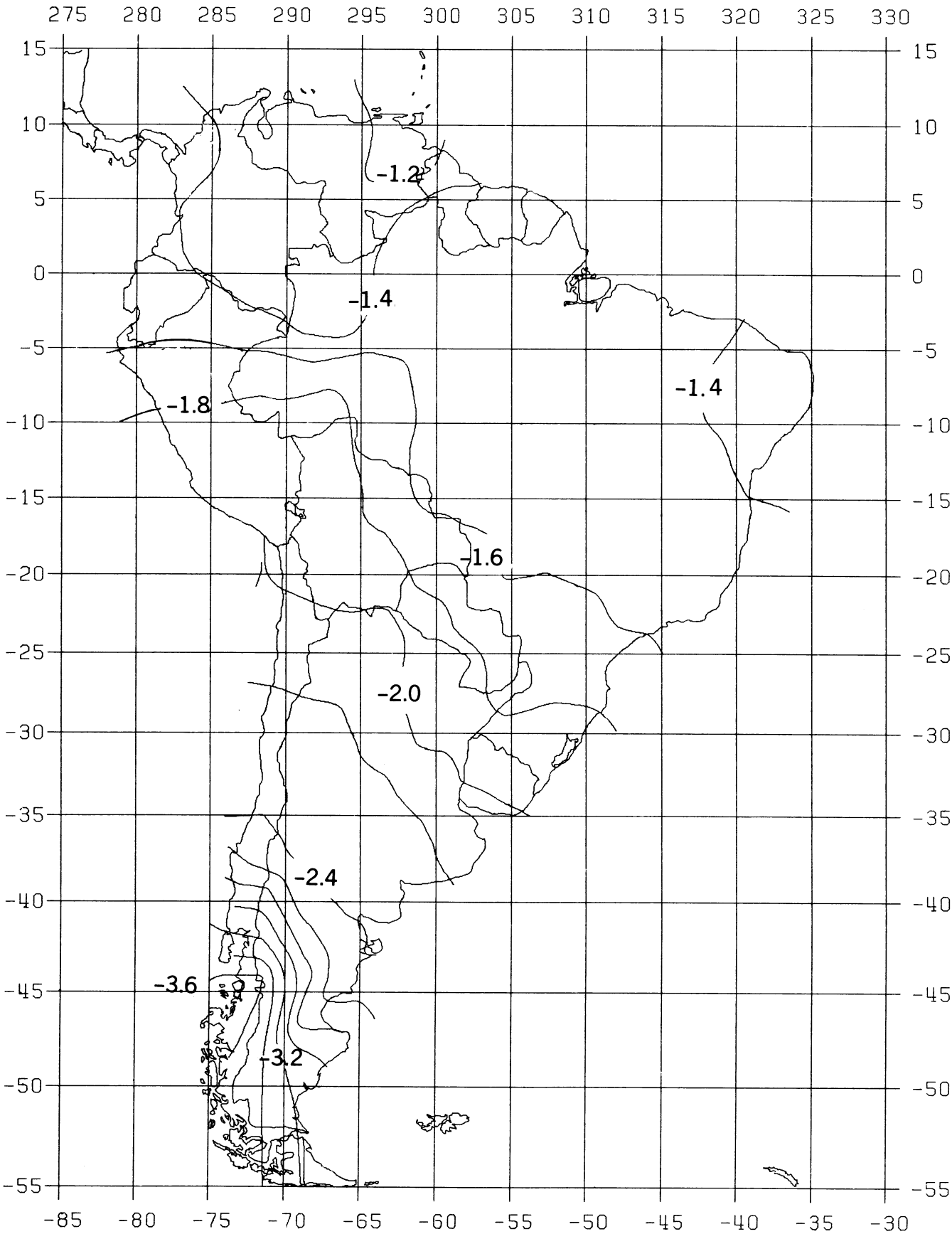

Figure 15.8. Contour Chart – Longitude Differences, WGS 84 Minus SAD 69 (Contour Interval = 0.2 Arc Second)

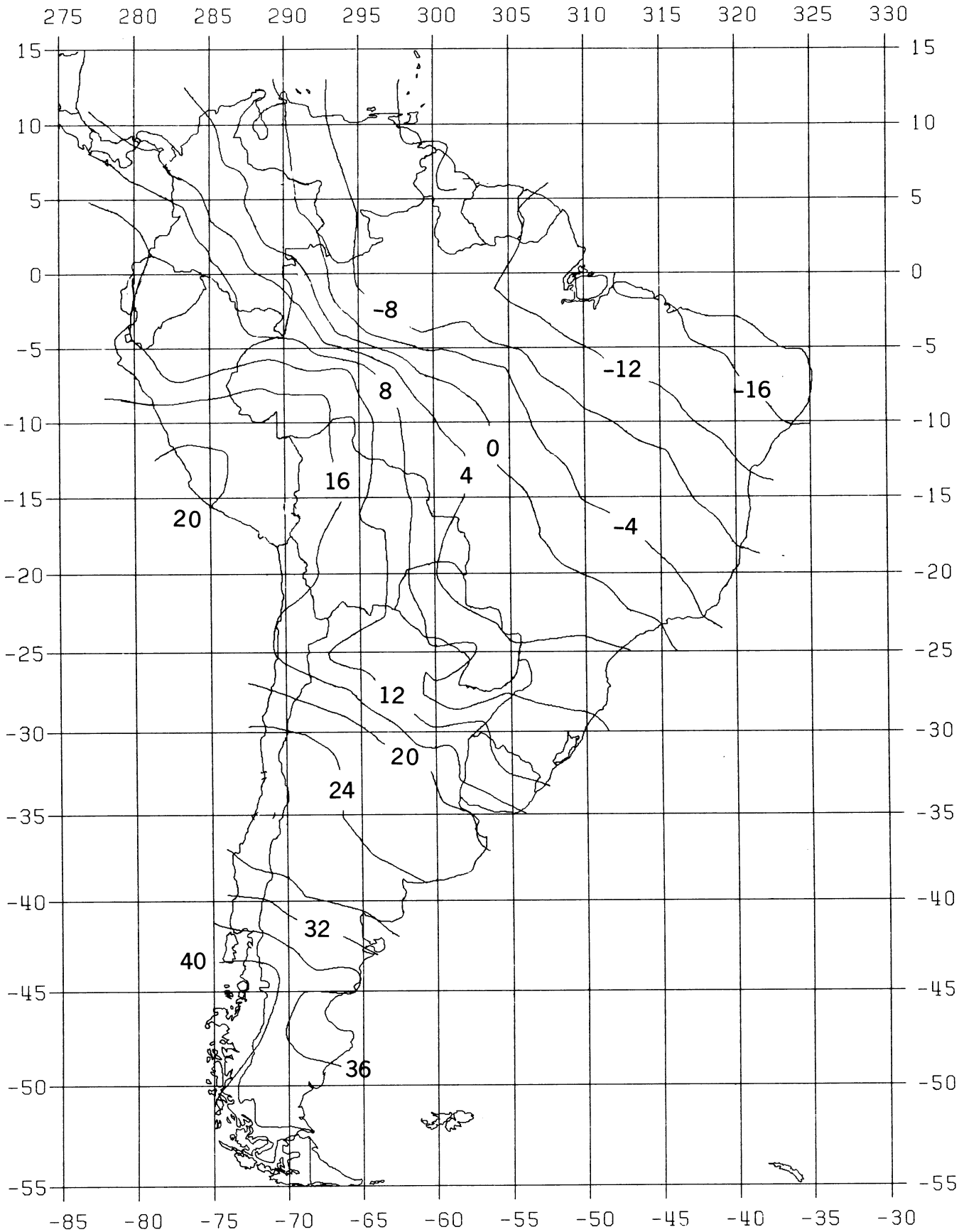

Figure 15.9. Contour Chart - Geodetic Height Differences, WGS 84 Minus SAD 69 (Contour Interval = 4 Meters)

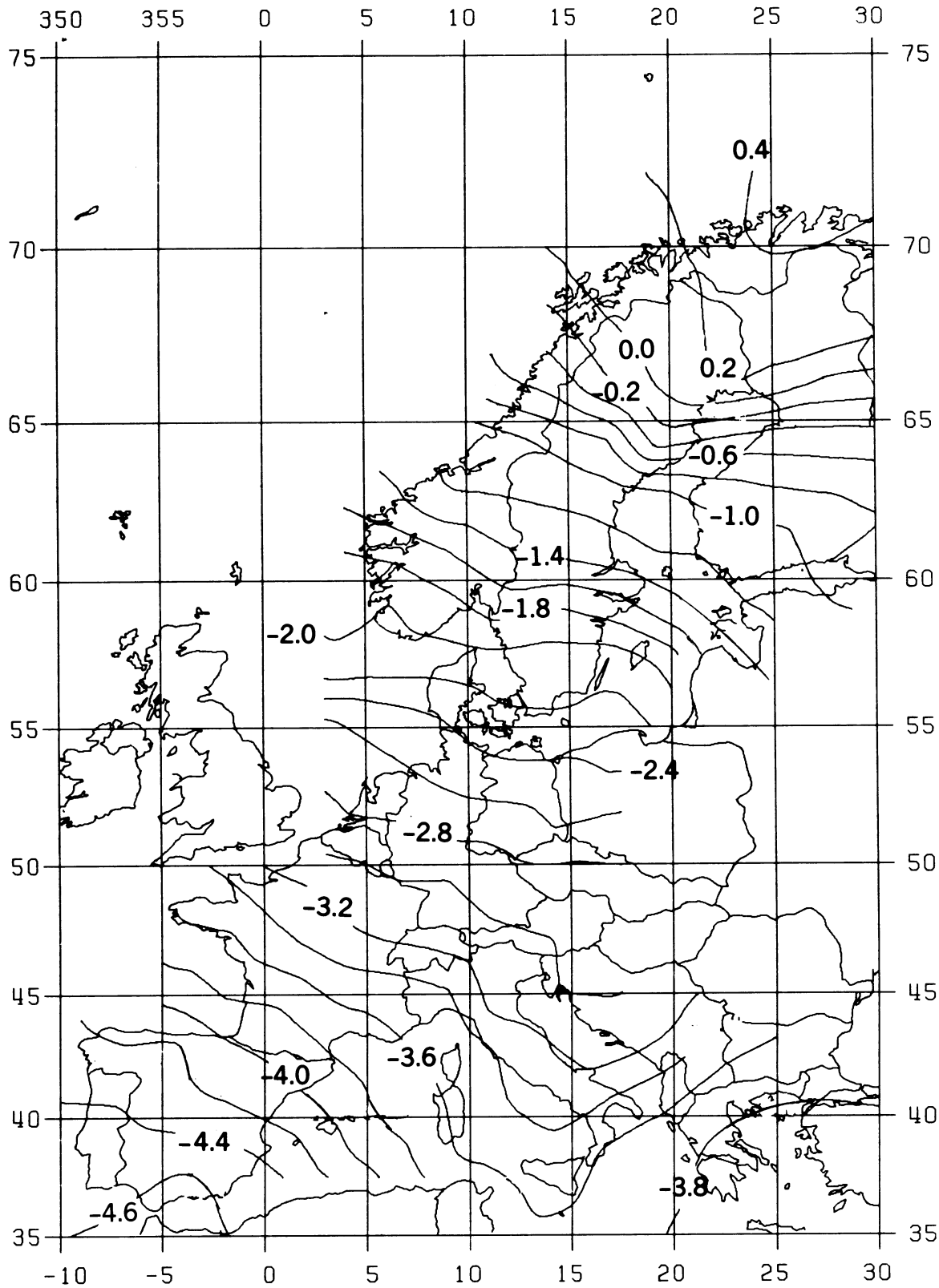

Figure 15.10. Contour Chart - Latitude Differences, WGS 84 Minus ED 50 (Western Europe; Contour Interval = 0.2 Arc Second)

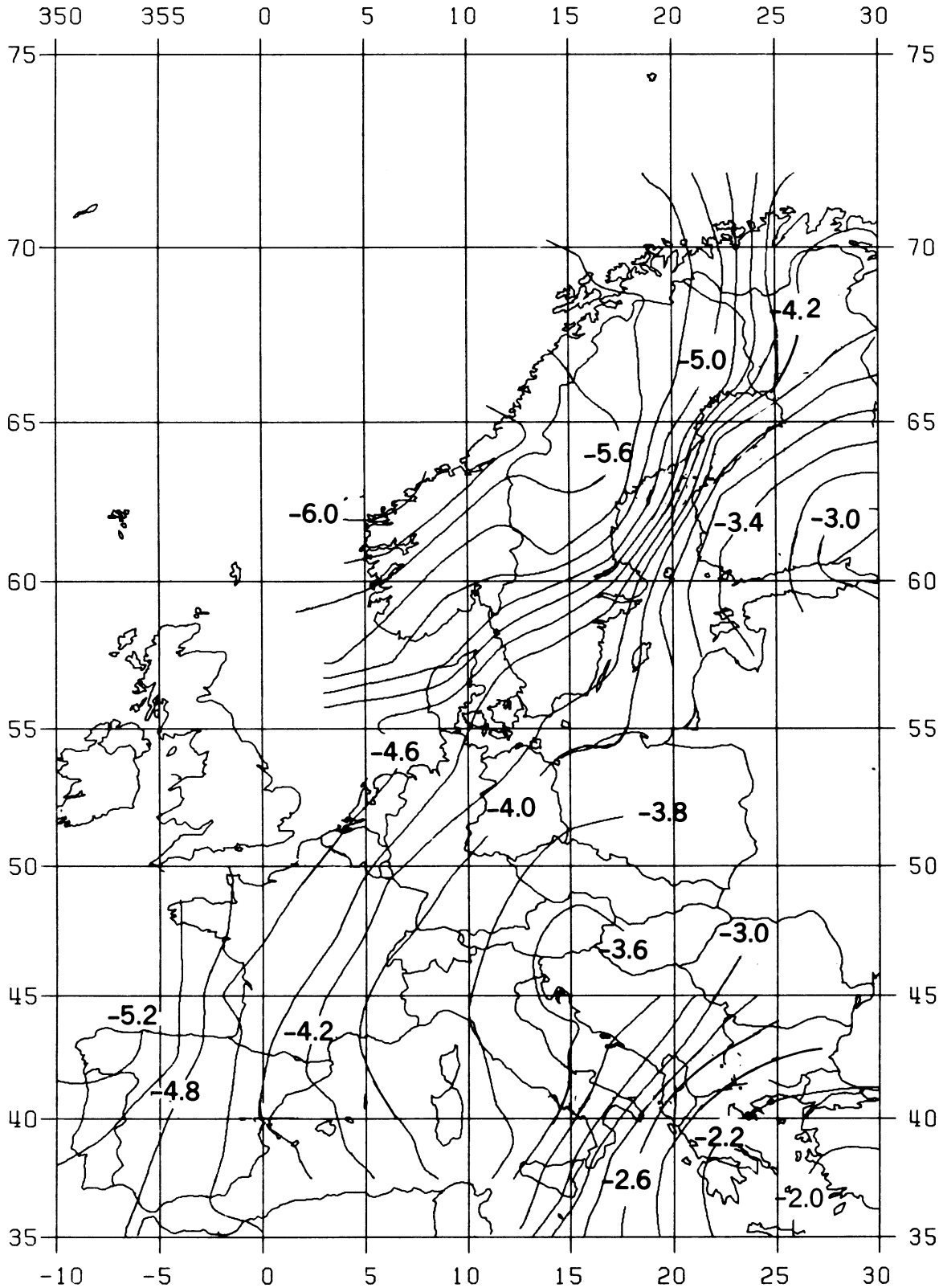

Figure 15.11. Contour Chart–Longitude Differences, WGS 84 Minus ED 50 (Western Europe; Contour Interval = 0.2 Arc Second)

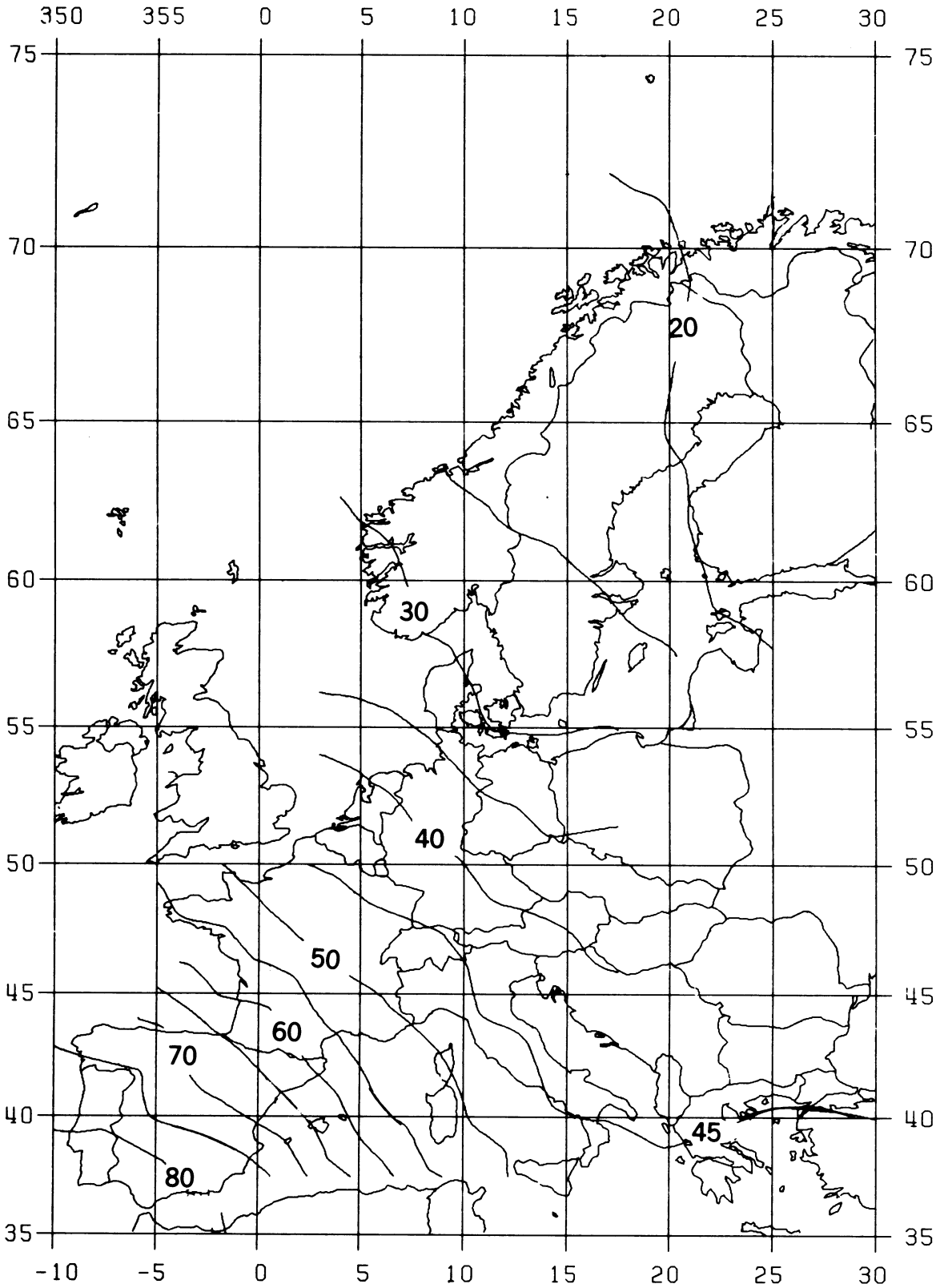

Figure 15.12. Contour Chart–Geodetic Height Differences, WGS 84 Minus ED 50 (Western Europe; Contour Interval = 5 Meters)

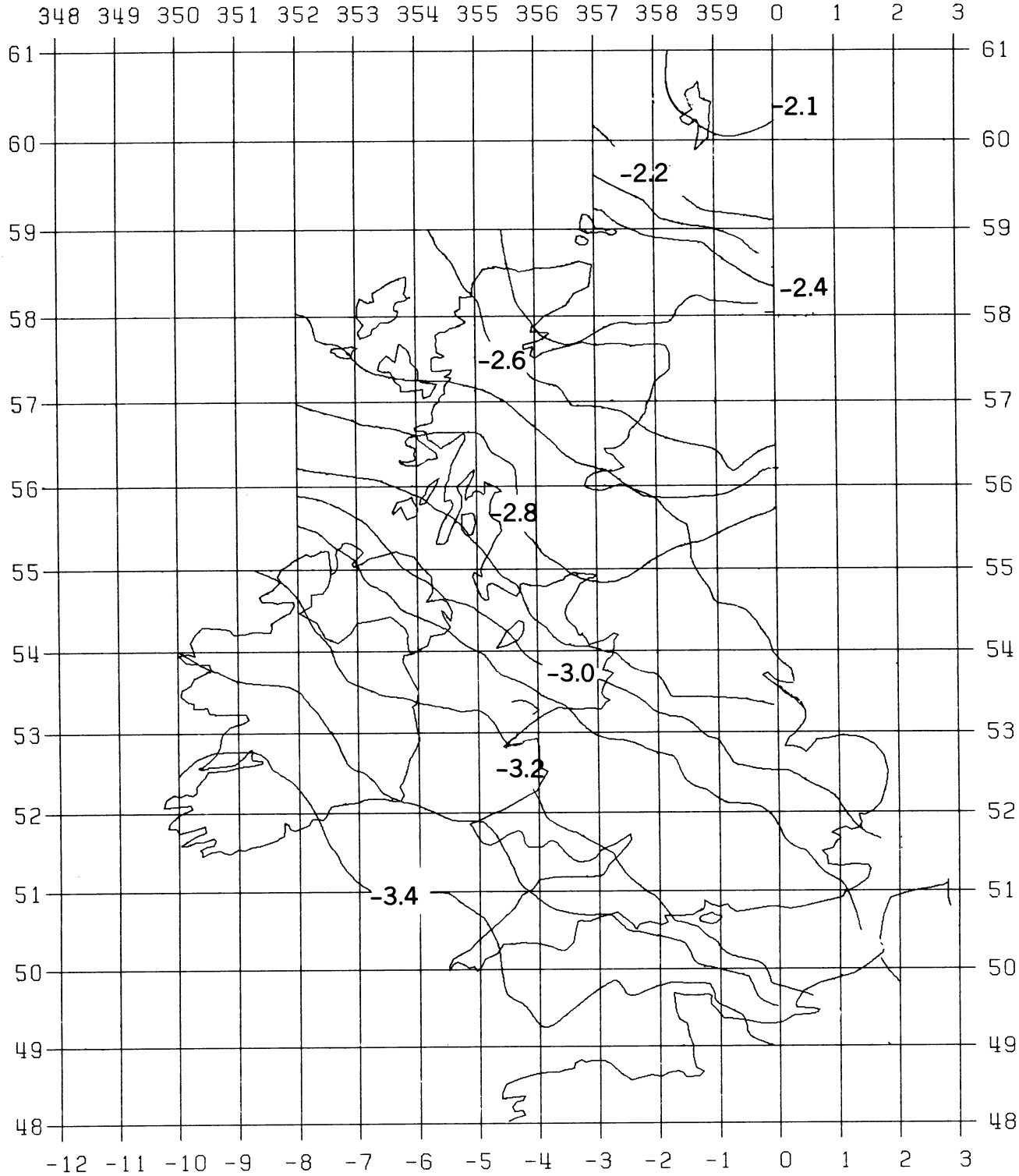

Figure 15.13. Contour Chart - Latitude Differences, WGS 84 Minus ED 50 (UK/Ireland; Contour Interval = 0.1 Arc Second)

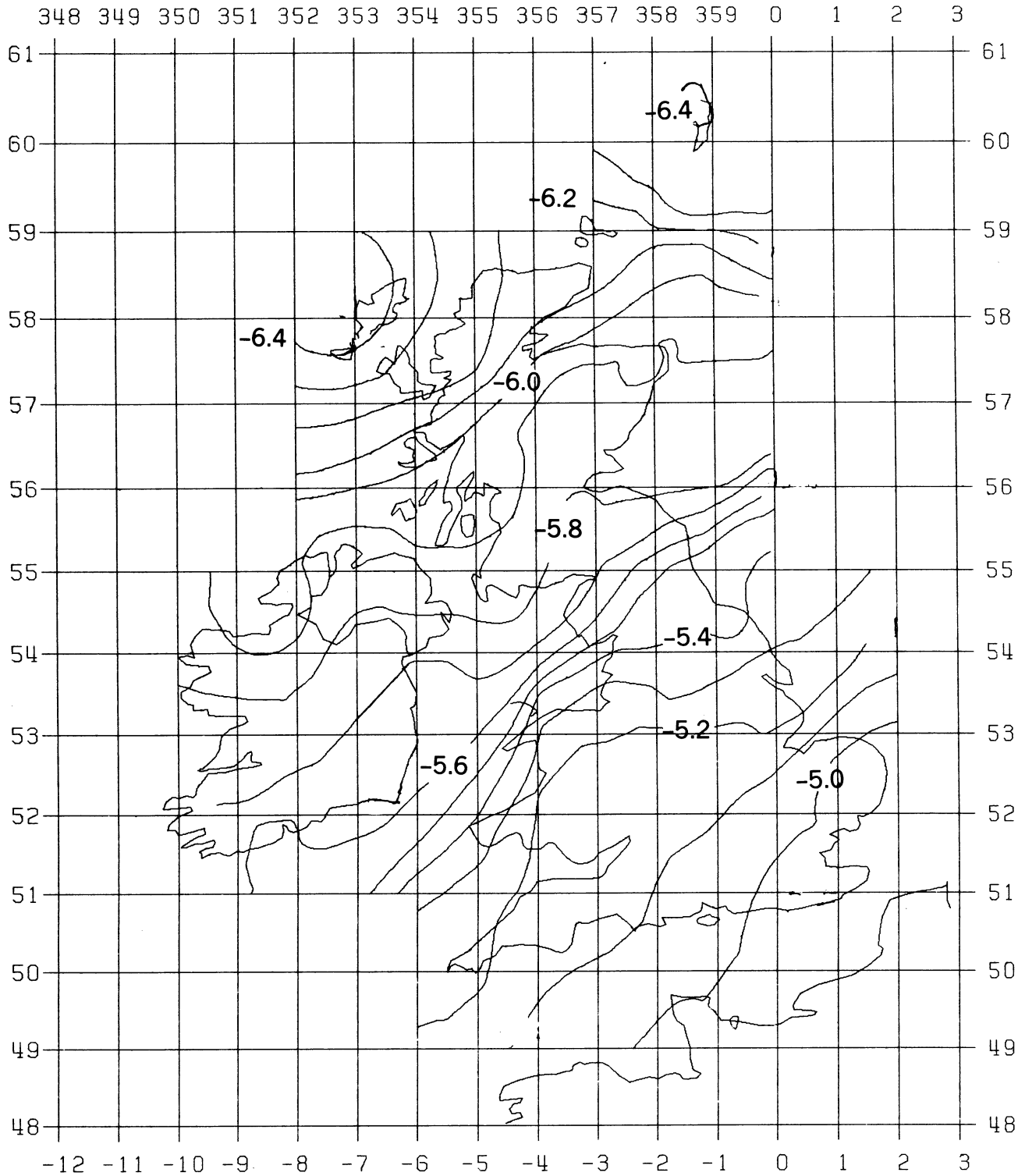

Figure 15.14. Contour Chart - Longitude Differences, WGS 84 Minus ED 50 (UK/Ireland; Contour Interval = 0.1 Arc Second)

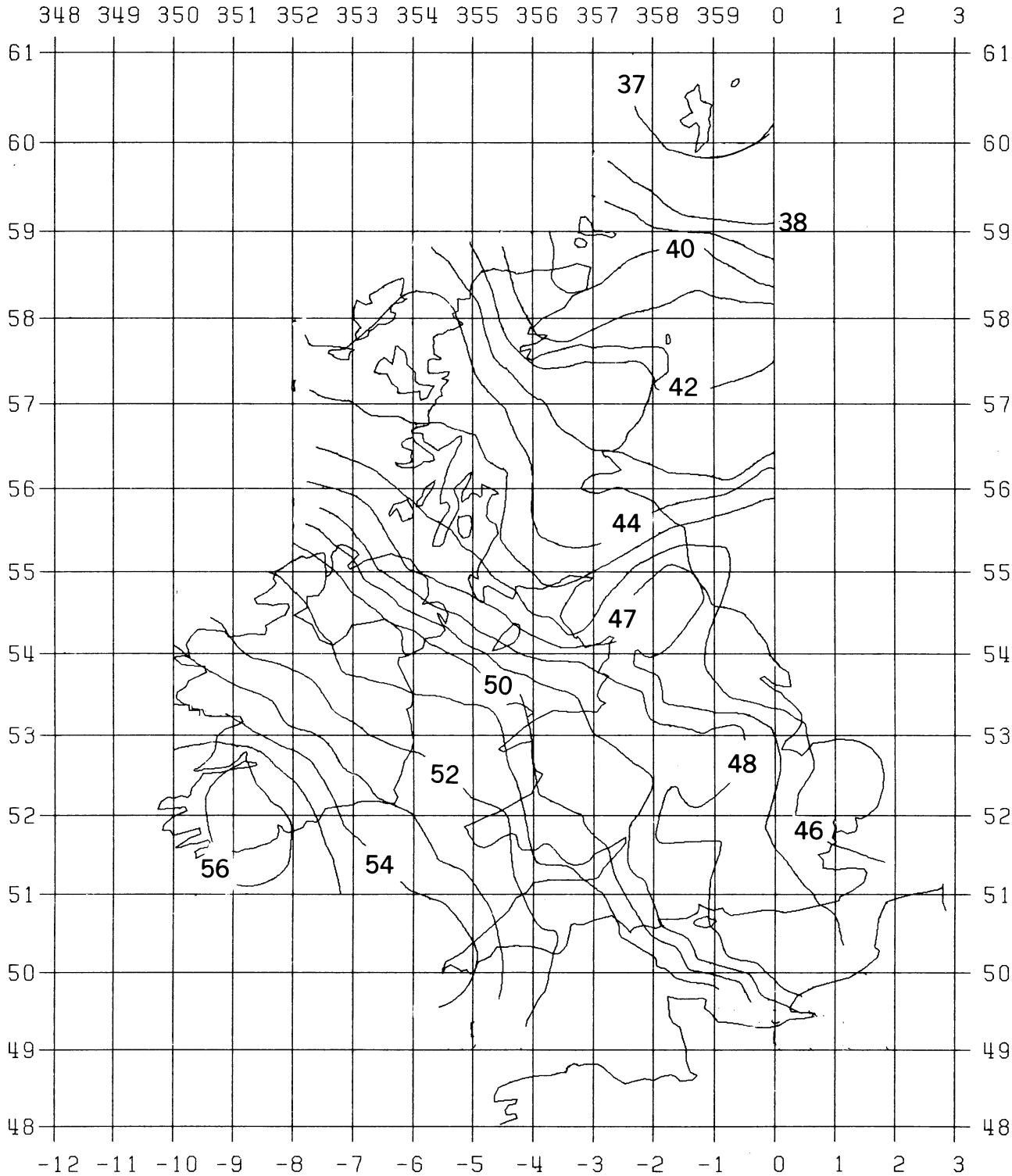

Figure 15.15. Contour Chart - Geodetic Height Differences, WGS 84 Minus ED 50 (UK/Ireland; Contour Interval = 1 Meter)

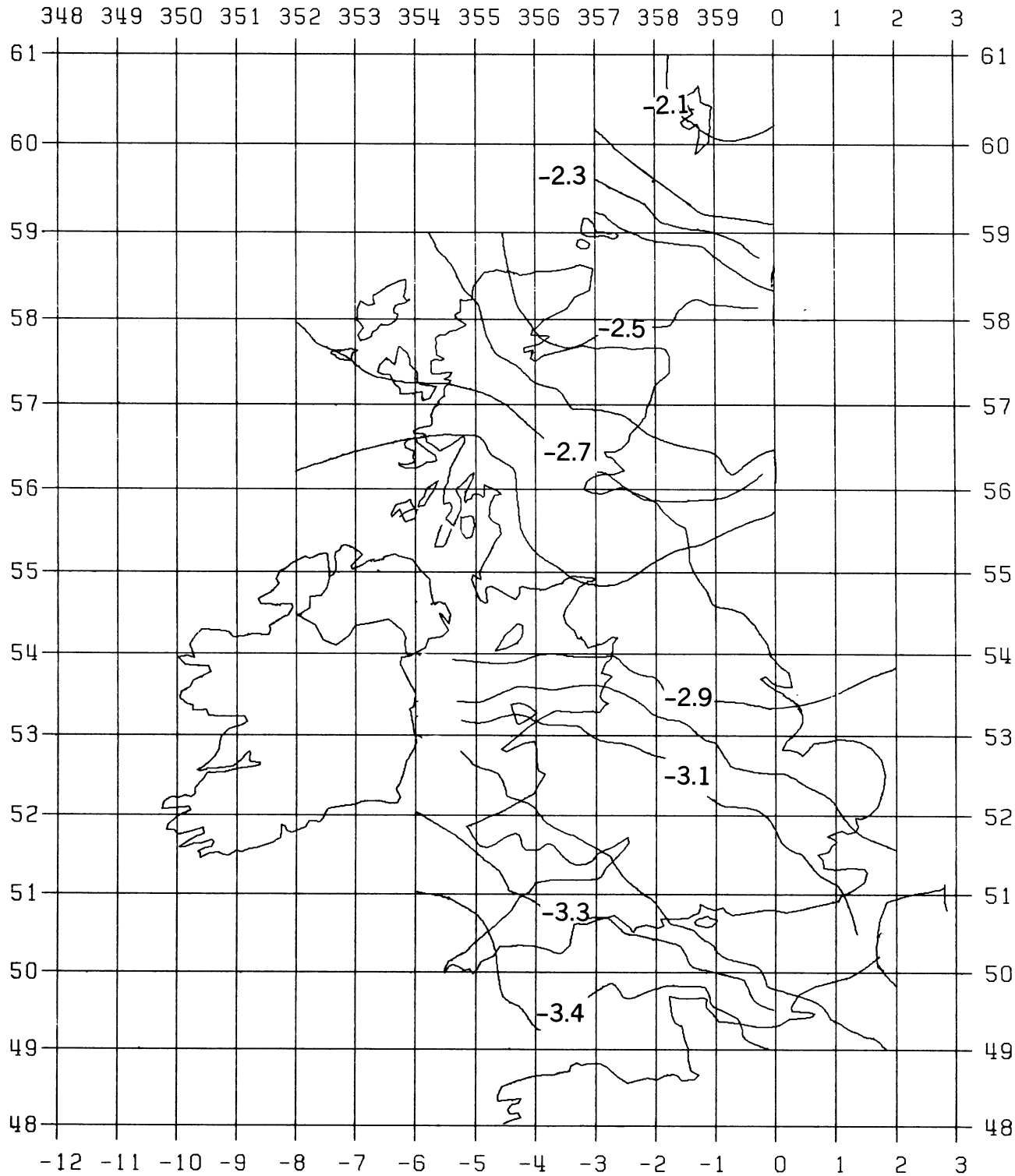

Figure 15.16. Contour Chart – Latitude Differences, WGS 84 Minus ED 50 (UK Only; Contour Interval = 0.1 Arc Second)

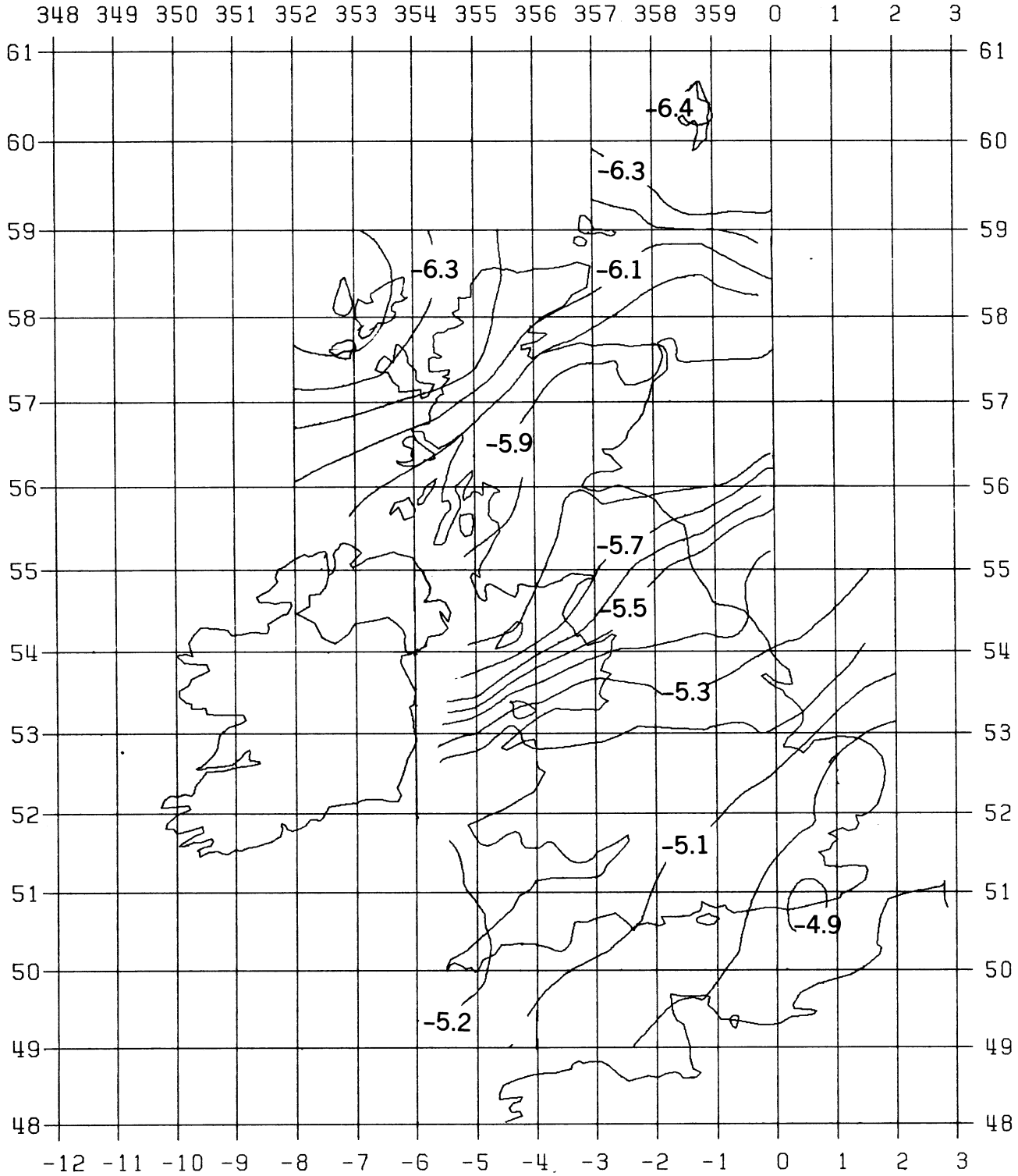

Figure 15.17. Contour Chart – Longitude Differences, WGS 84 Minus ED 50
(UK Only; Contour Interval = 0.1 Arc Second)

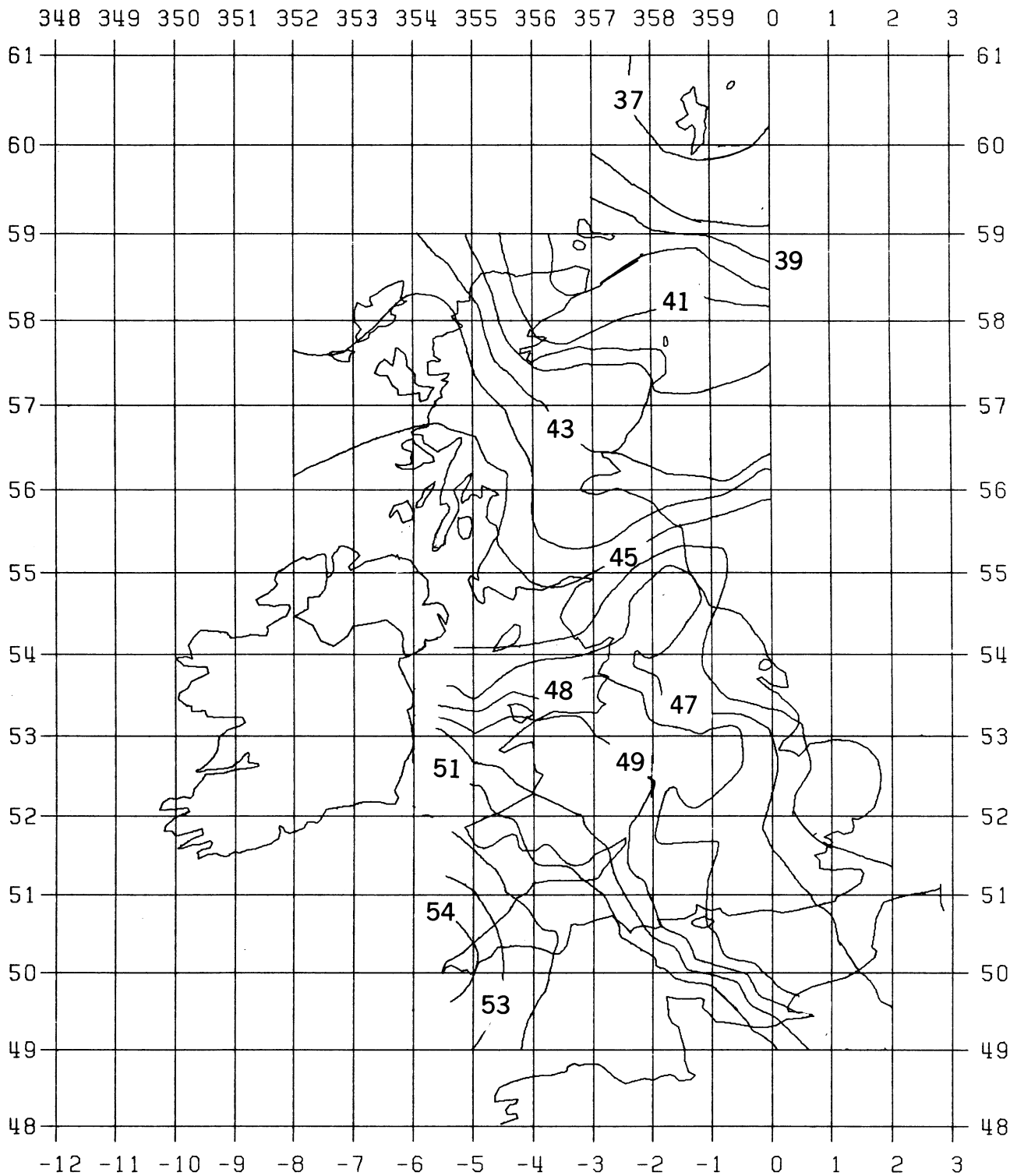

Figure 15.18. Contour Chart - Geodetic Height Differences, WGS 84 Minus ED 50
(UK Only; Contour Interval = 1 Meter)

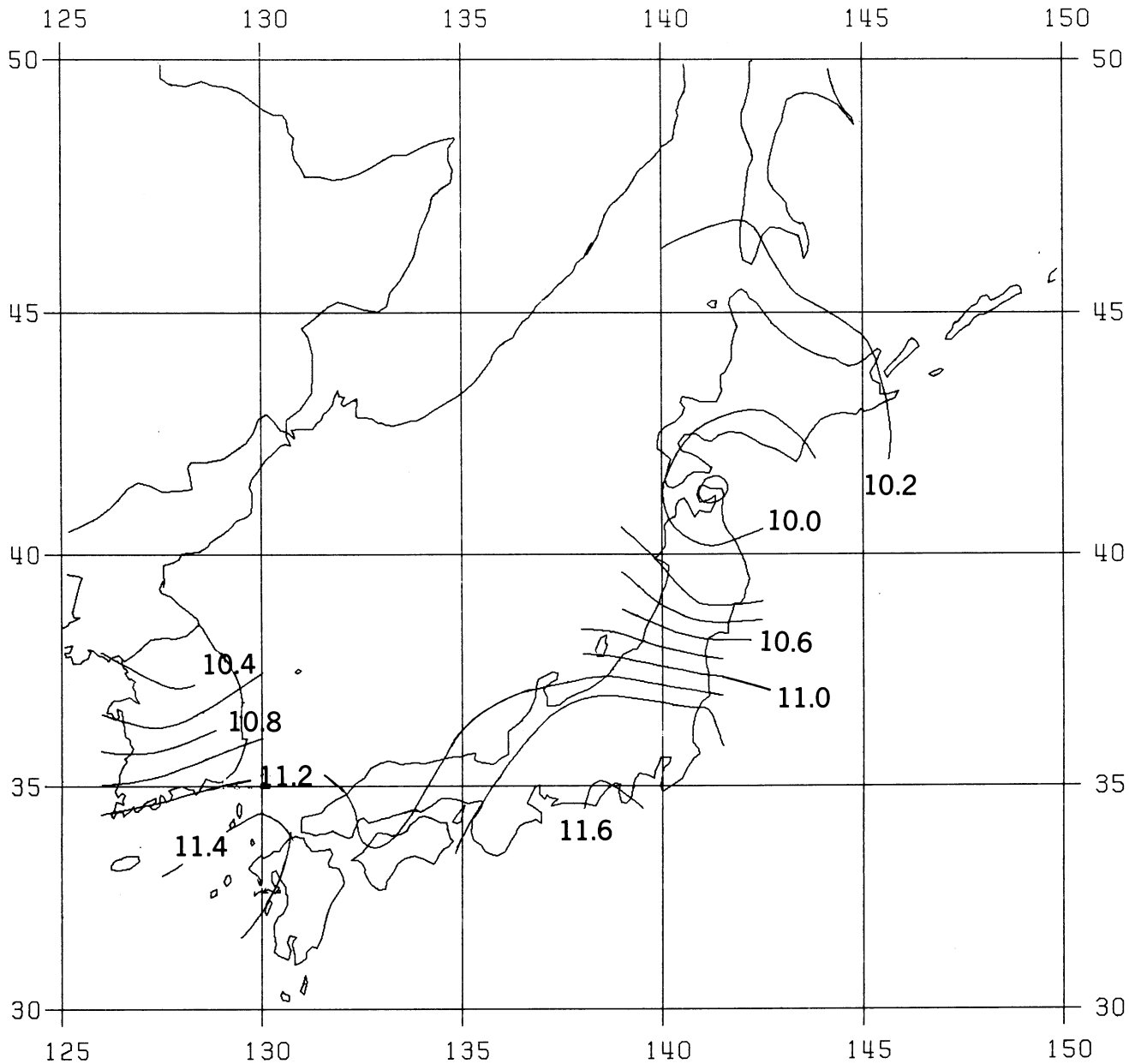

Figure 15.19. Contour Chart – Latitude Differences, WGS 84 Minus TD (Contour Interval = 0.2 Arc Second)

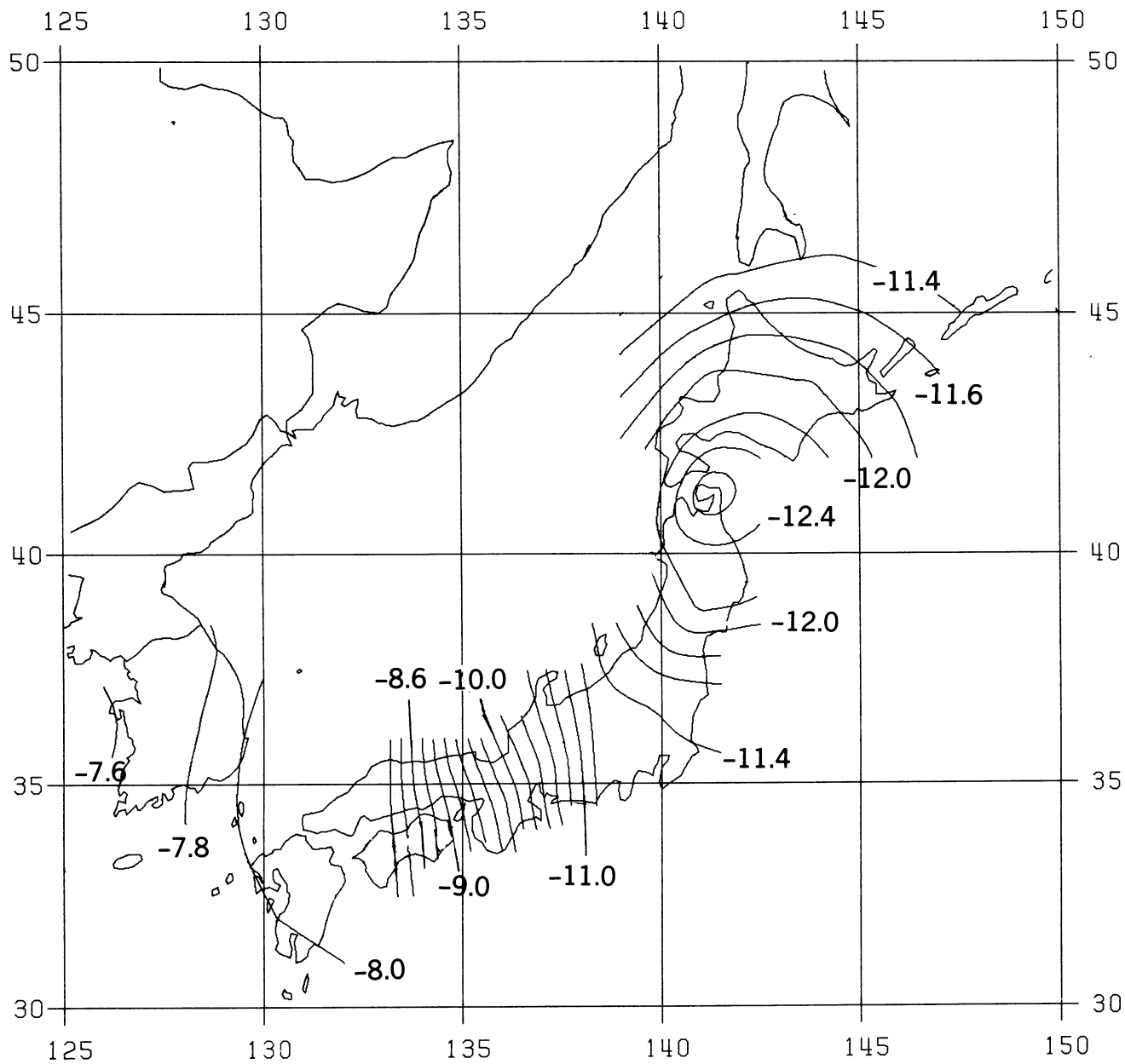

Figure 15.20. Contour Chart – Longitude Differences, WGS 84 Minus TD (Contour Interval = 0.2 Arc Second)

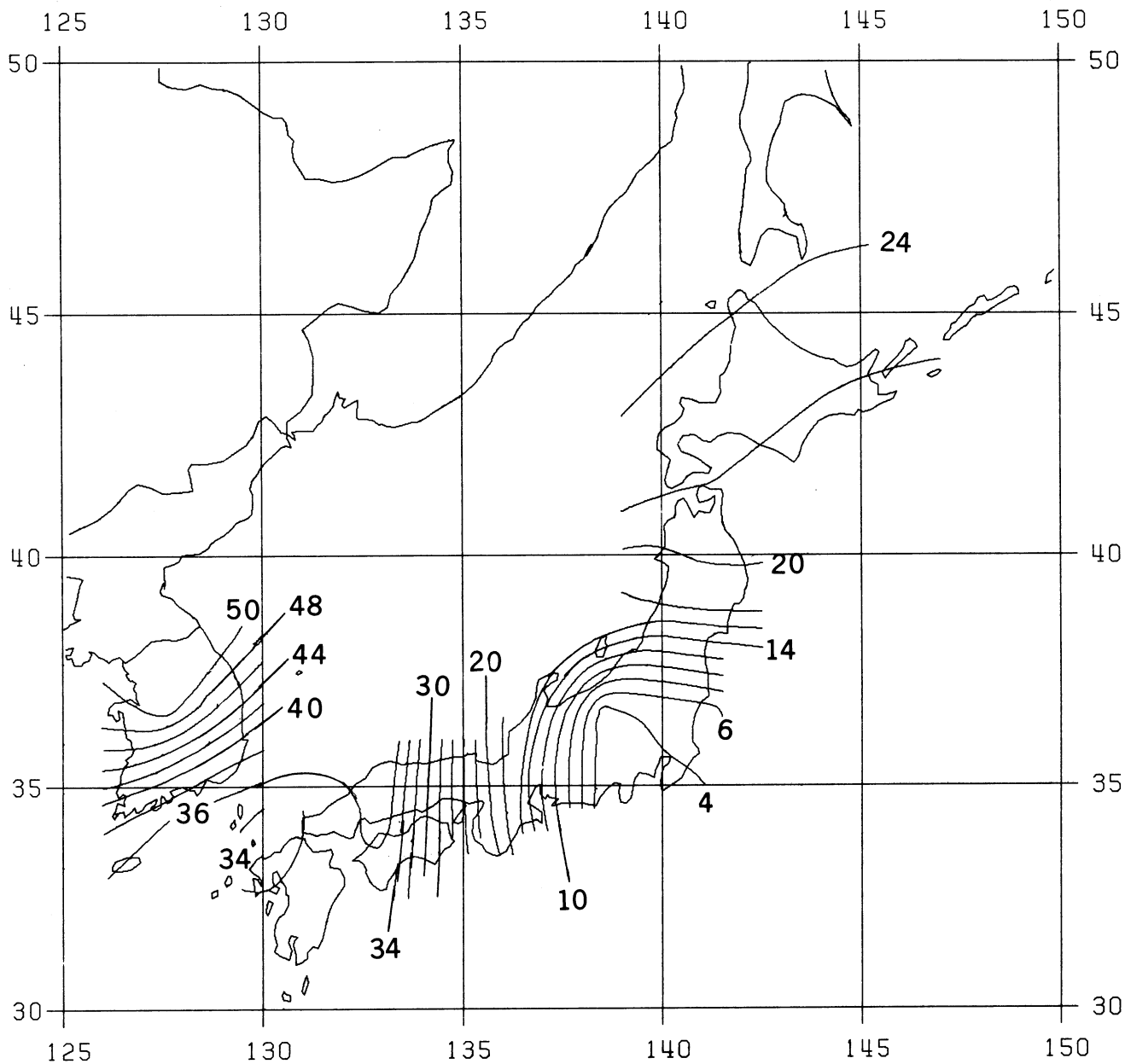

Figure 15.21. Contour Chart – Geodetic Height Differences, WGS 84 Minus TD (Contour Interval = 2 Meters)

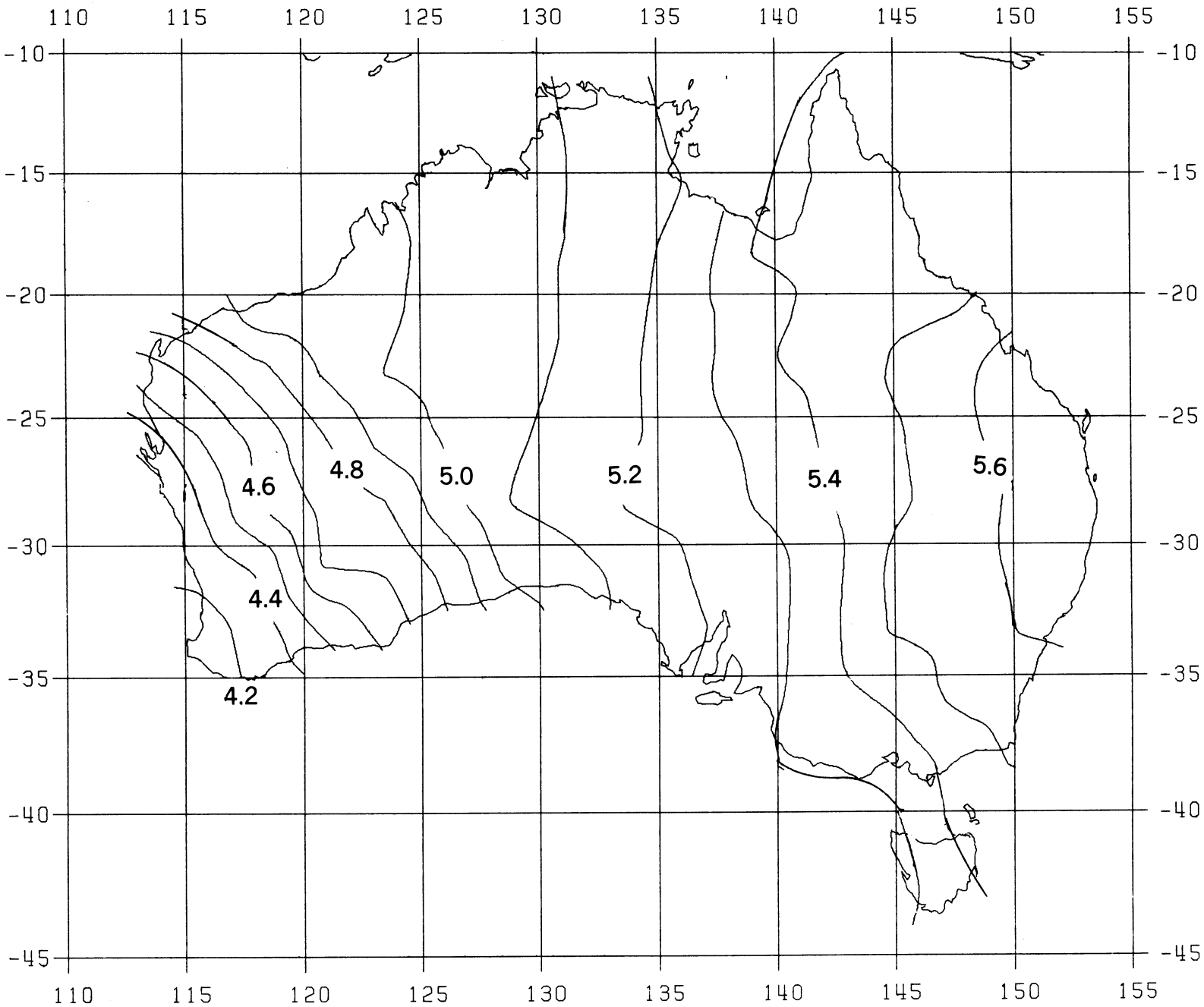

Figure 15.22. Contour Chart – Latitude Differences, WGS 84 Minus AGD 66 (Contour Interval = 0.1 Arc Second)

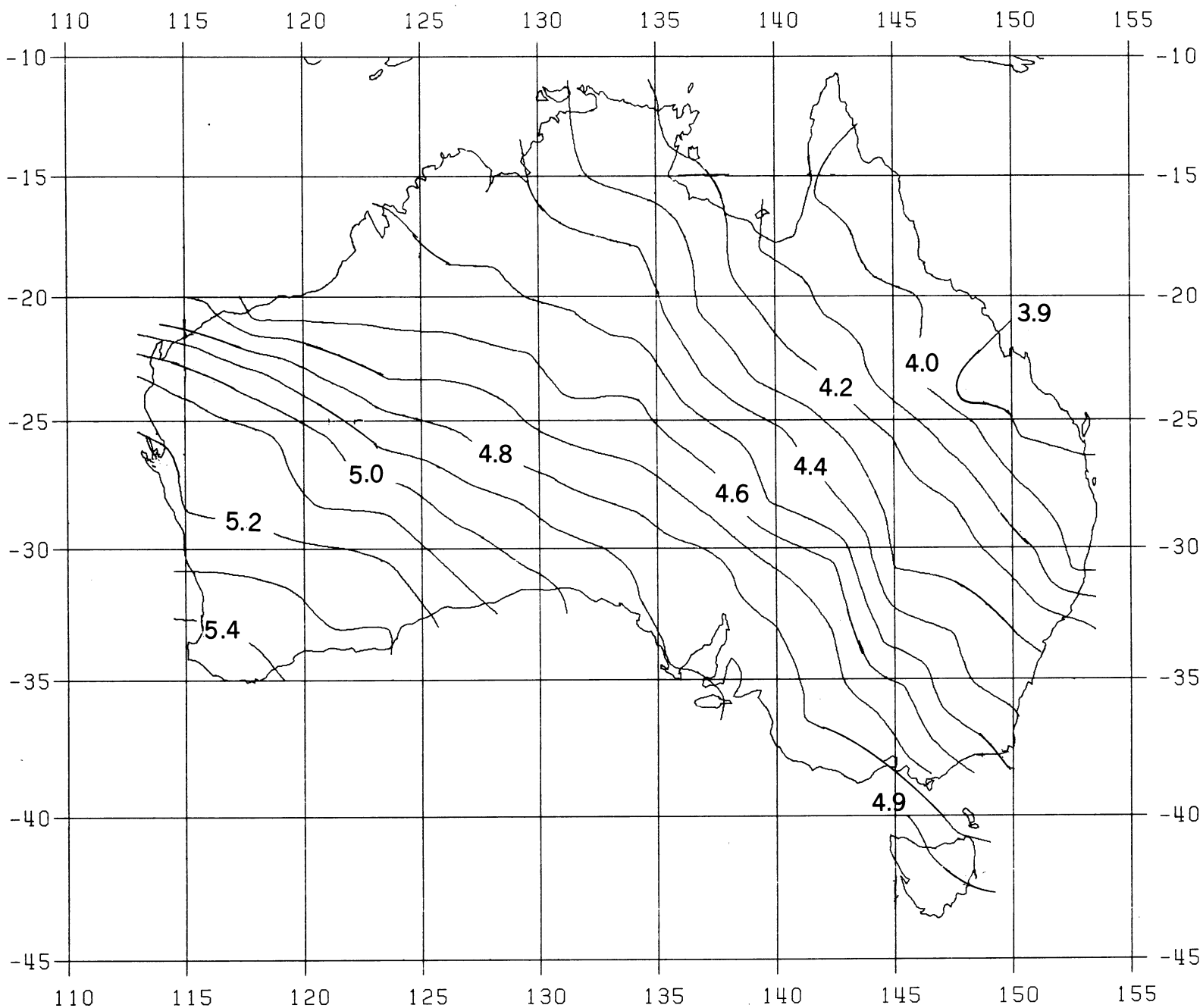

Figure 15.23. Contour Chart – Longitude Differences, WGS 84 Minus AGD 66 (Contour Interval = 0.1 Arc Second)

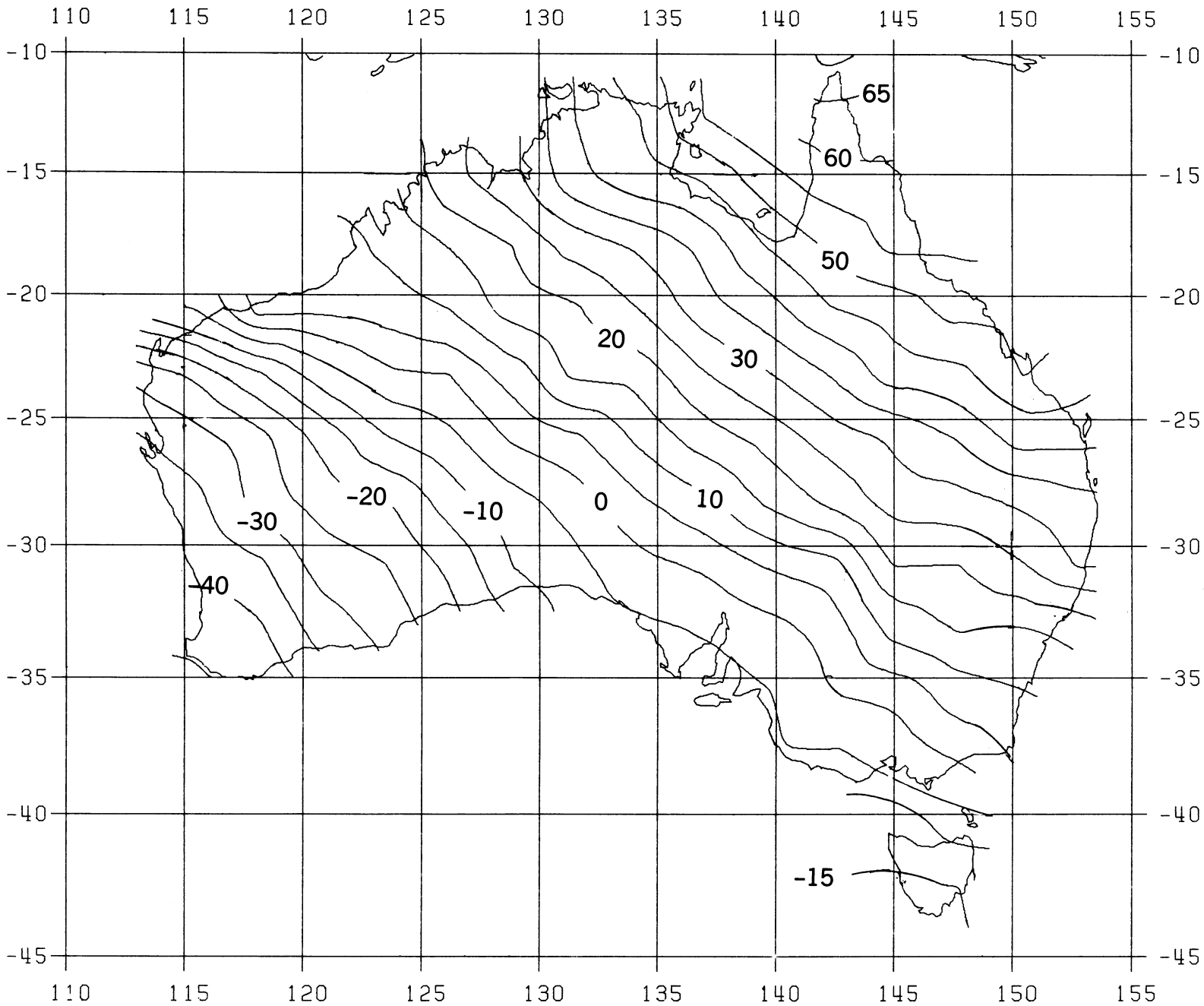

Figure 15.24. Contour Chart - Geodetic Height Differences, WGS 84 Minus AGD 66 (Contour Interval = 5 Meters)

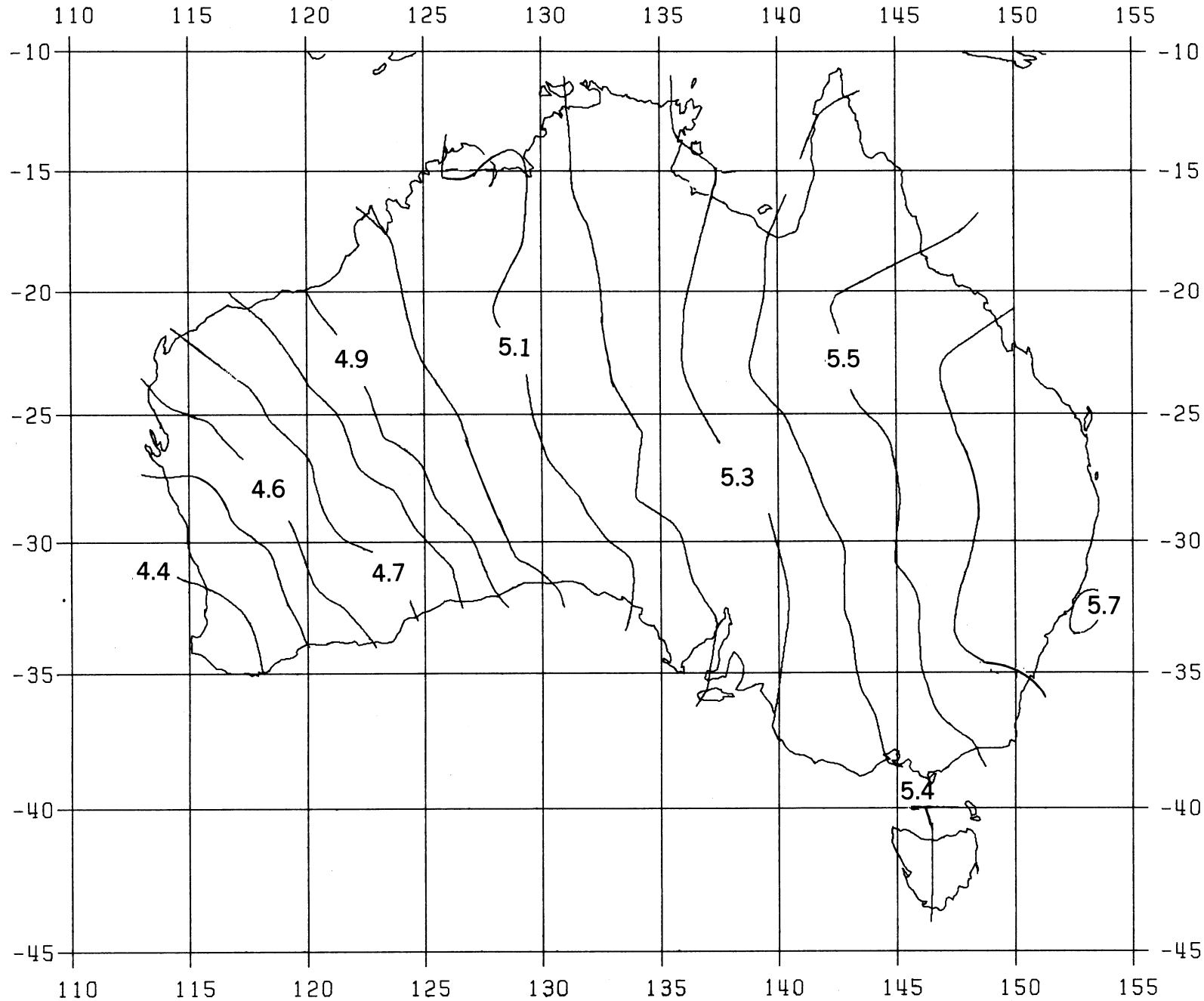

Figure 15.25. Contour Chart – Latitude Differences, WGS 84 Minus AGD 84 (Contour Interval = 0.1 Arc Second)

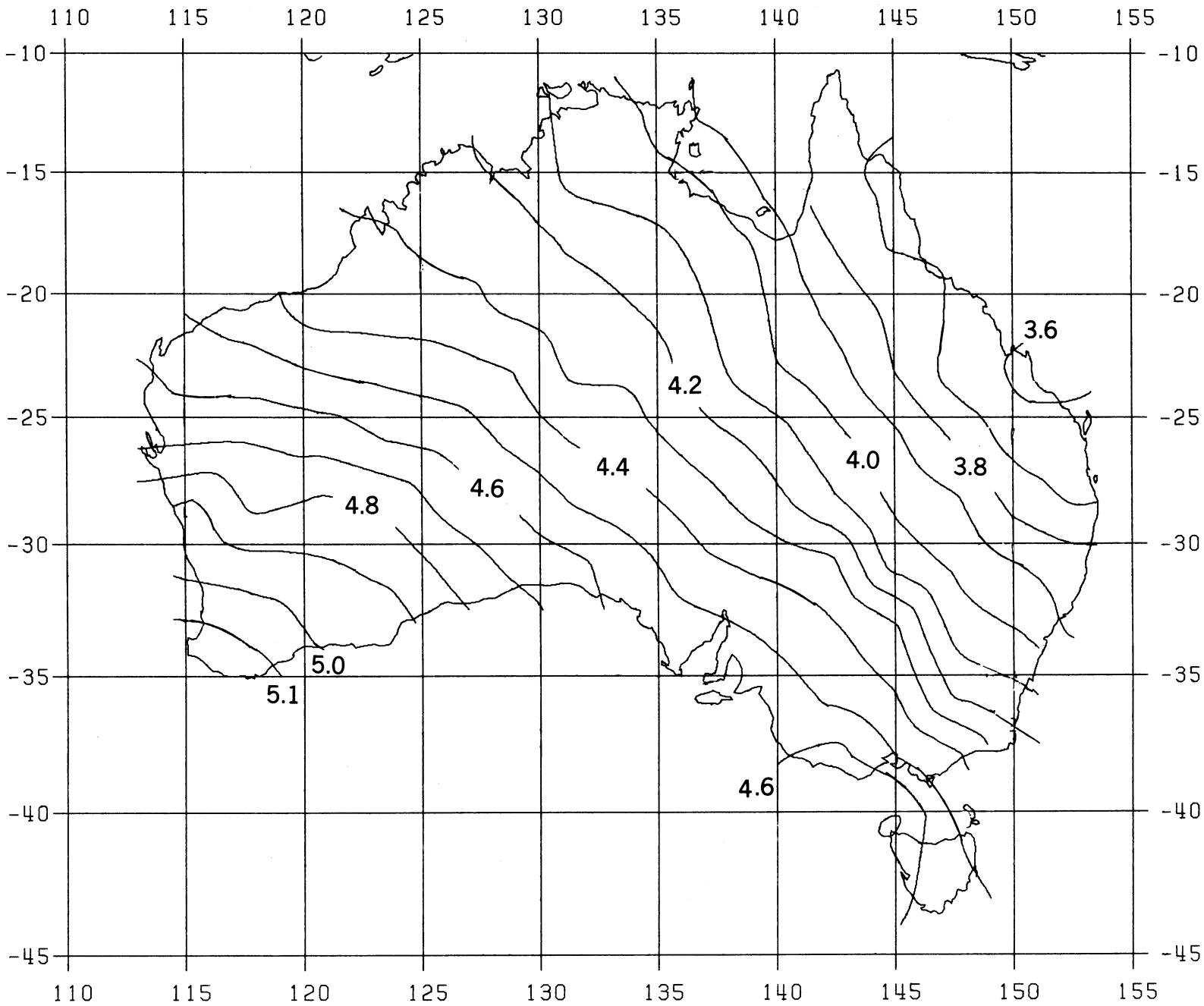

Figure 15.26. Contour Chart – Longitude Differences, WGS 84 Minus AGD 84 (Contour Interval = 0.1 Arc Second)

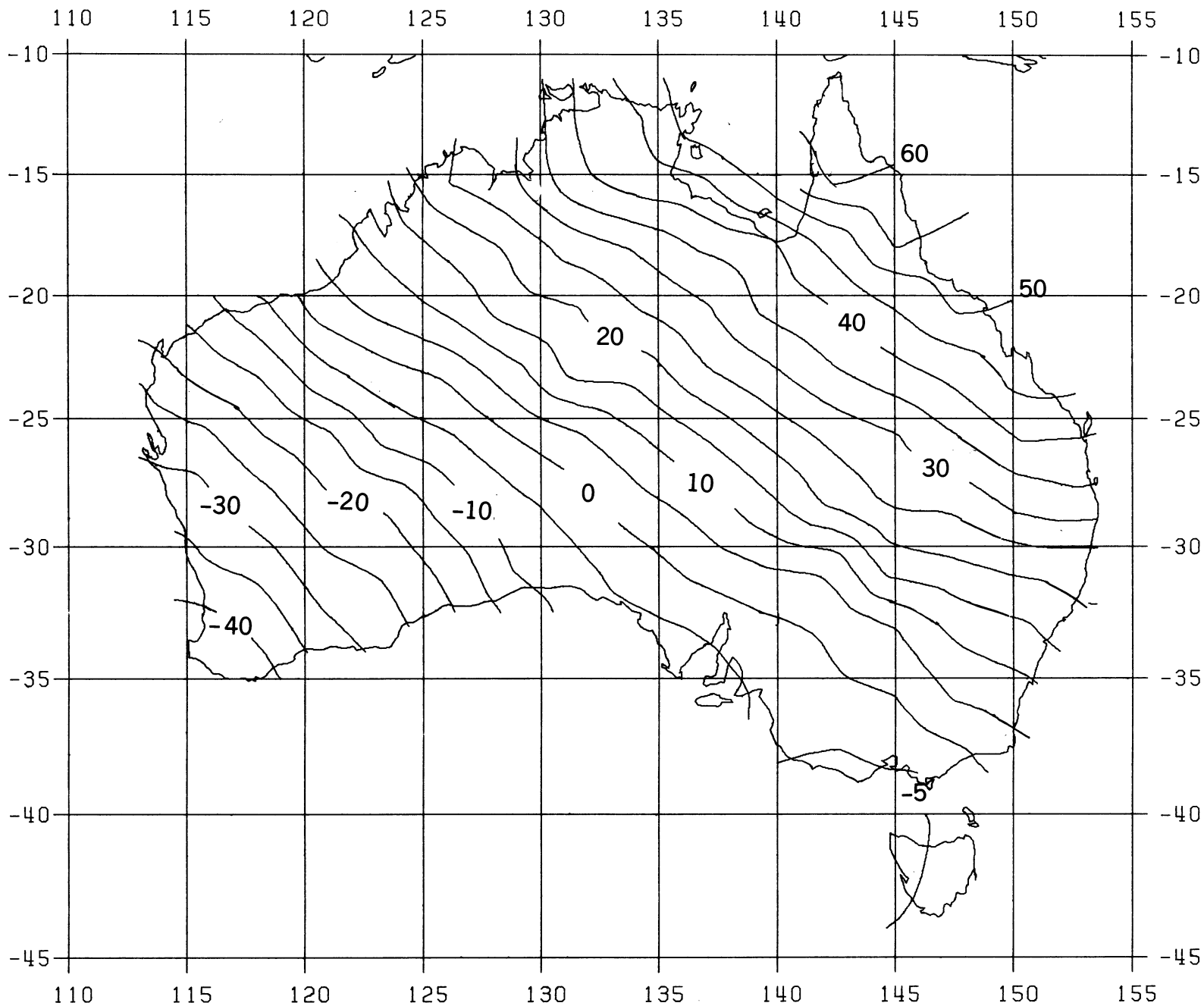

Figure 15.27. Contour Chart - Geodetic Height Differences, WGS 84 Minus AGD 84 (Contour Interval = 5 Meters)