

## **Appendix A**

# **The Galactic plane at 151.5 MHz**

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In this Appendix, we present dirty images covering an additional of about half a steradian of the sky ( $15^{\text{h}}06^{\text{m}} \leq \text{RA} \leq 18^{\text{h}}$ ,  $-75^{\circ} \leq \delta \leq -10^{\circ}$ ) with an angular resolution of  $4' \times 4.6 \text{ sec}(\delta+20^{\circ}.14)$ . The primary beam correction of the helix has been applied. MRT with its availability of short spatial frequencies and nearly complete  $uv$  coverage is sensitive to extended features in the sky. These images include a large part of the southern Galactic plane including the Galactic center. A detailed interpretation of these images needs a separate treatment and is beyond the scope of this thesis. However a preliminary discussion is given in Chapter 7. The contour levels are -5, -3.6, -2.5, -1.8, 1, 1.4, 2, 2.8, 3.6, 5, 7, 10, 14, 20, 29, 40, 54, 72, 90, 100, 136, 180, 216, 252, 288  $\text{Jy beam}^{-1}$ . The negative contour levels are represented using grey lines while the positive contours are represented by black solid lines. The average rms noise measured in each subimage is also shown alongwith. The FWHM in RA changes from 16.2 s (at  $\delta=0^{\circ}$ ) to 61.8 s ( $\delta=-75^{\circ}$ ) by a factor of  $\approx 3.8$ . The FWHM along declination is constant in  $\sin(\alpha)$  coordinate system but changes as a function of declination in angular extent from  $4.6$  ( $\delta=-20^{\circ}.14$ ) to  $8'$  ( $\delta=-75^{\circ}$ ) by a factor of  $\approx 1.7$ . The FWHM corresponding to the center declination of each subimage is also shown on the individual maps in the bottom left corner. The layout, the RA and the declination coverage and the corresponding figure number of all the subimages is summarized in Fig. 7.14.

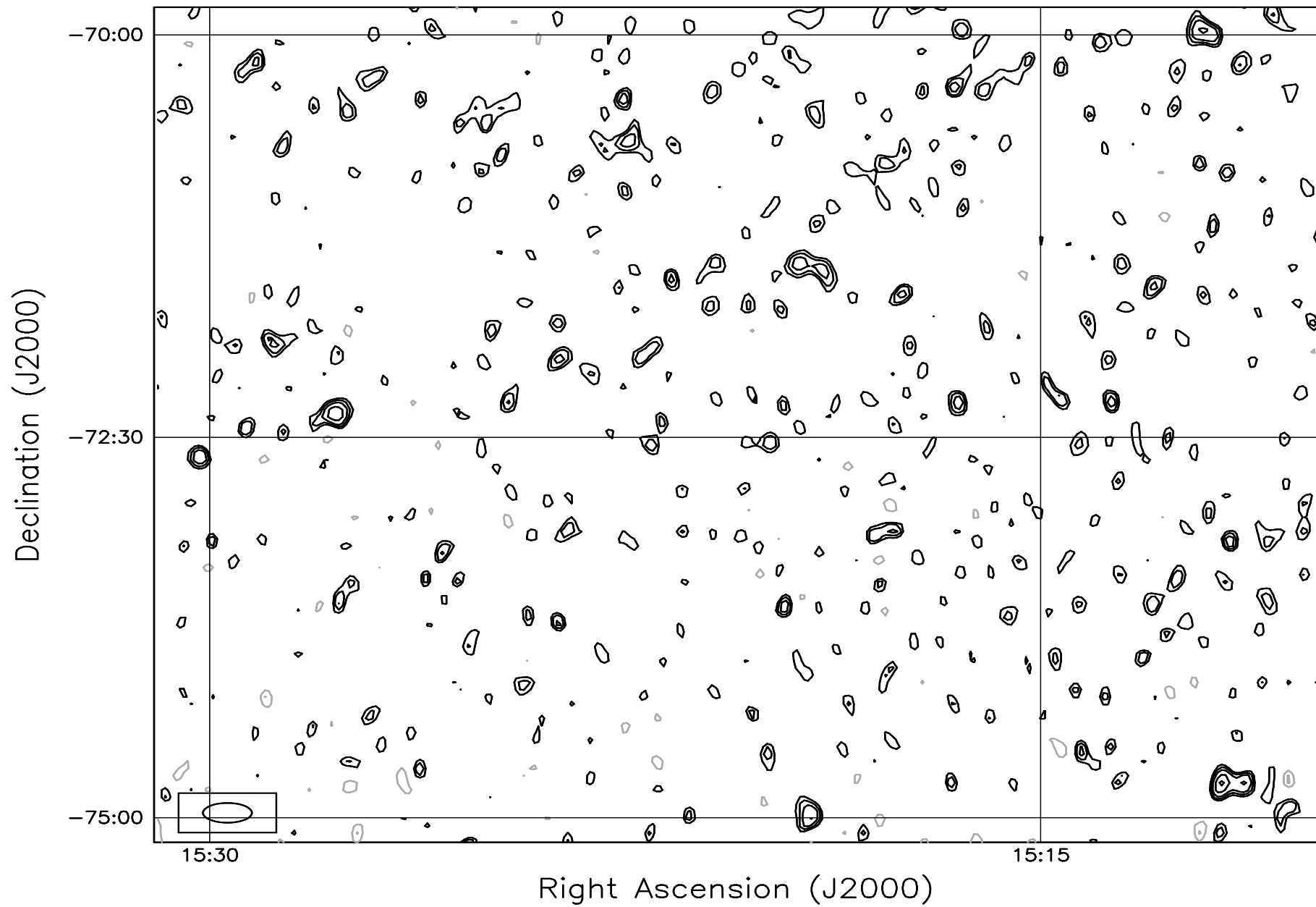


Fig. A.1: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-75^{\circ}$  to  $-70^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

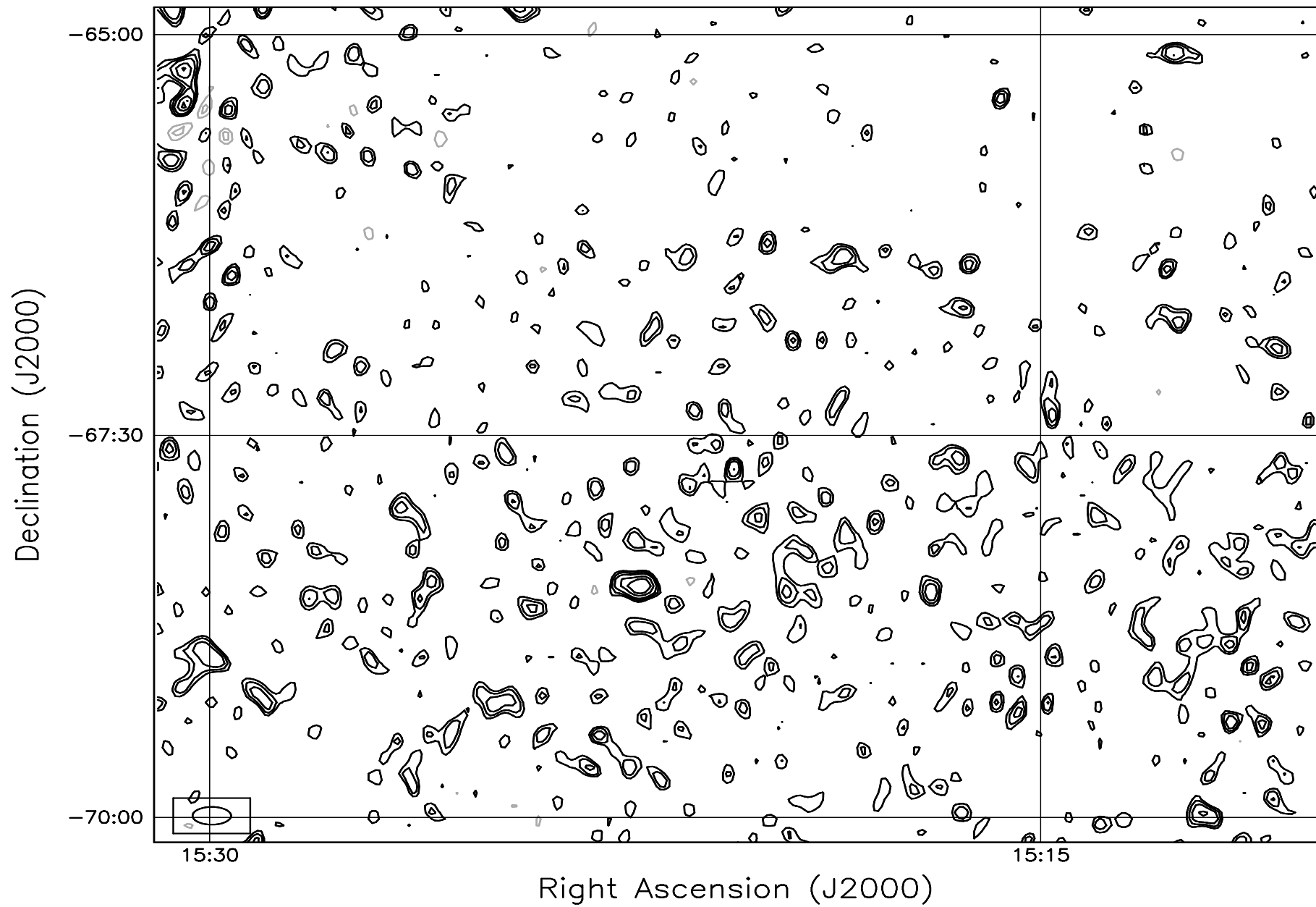


Fig. A.2: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-70^{\circ}$  to  $-65^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



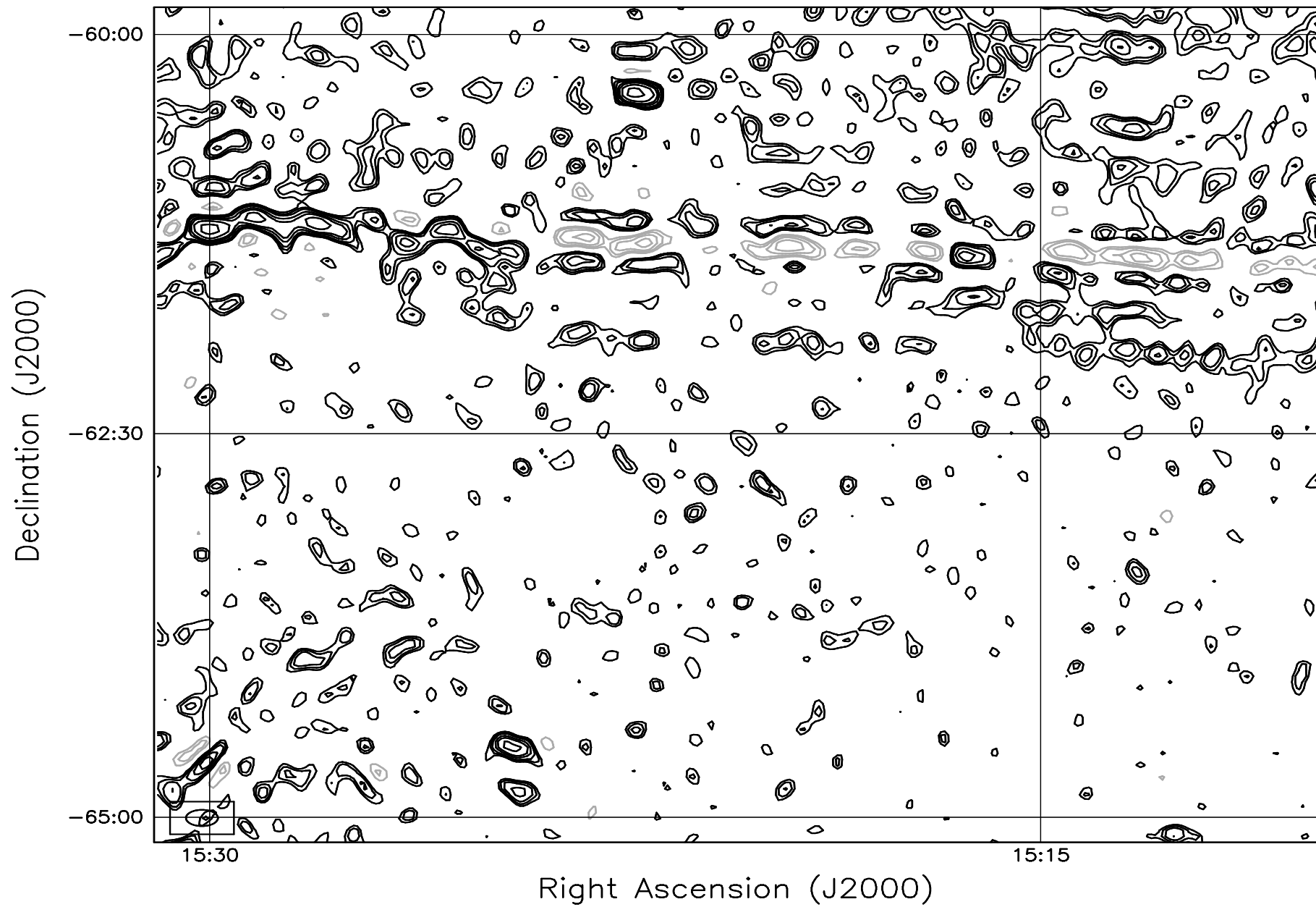


Fig. A.3: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-65^{\circ}$  to  $-60^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

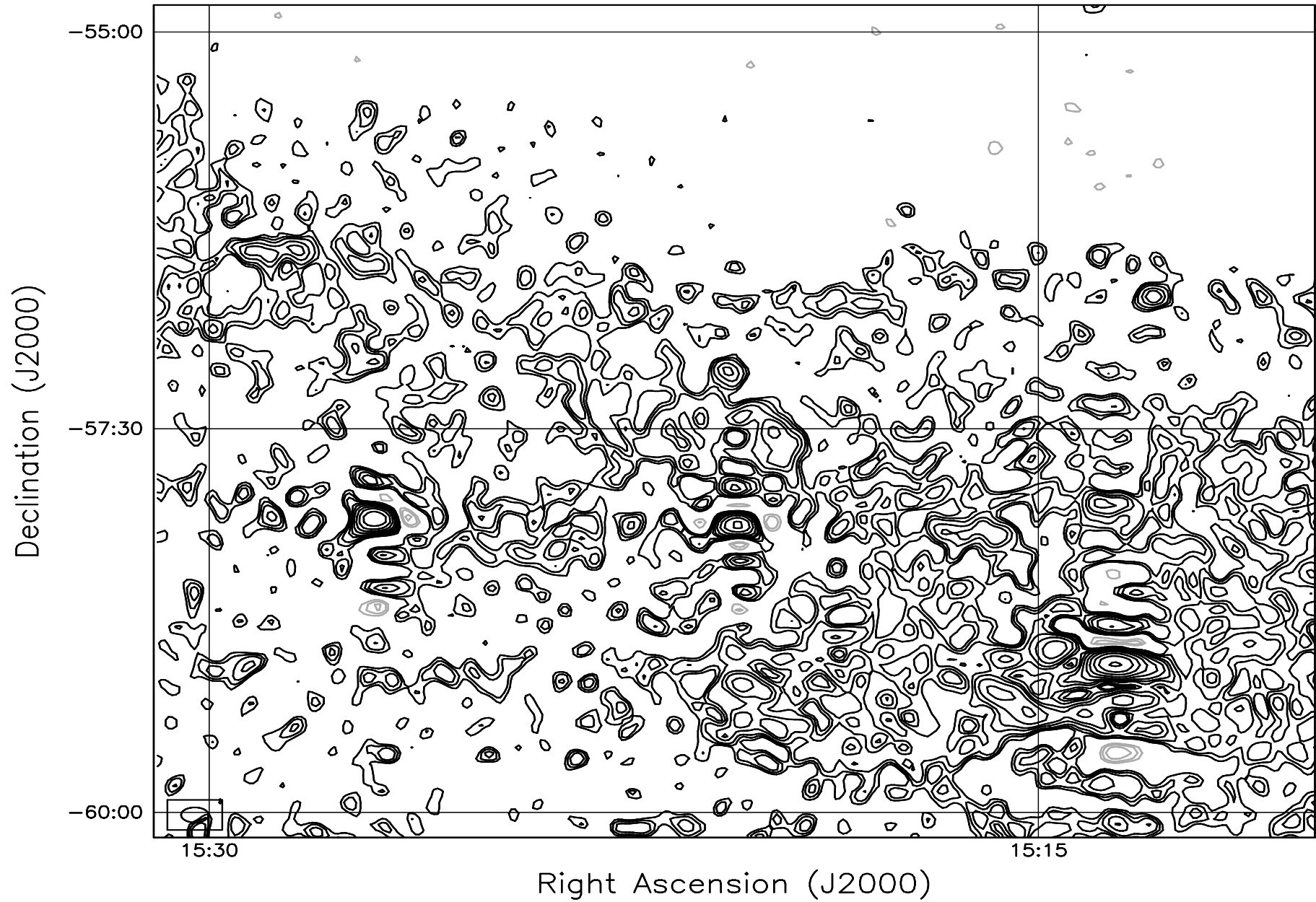


Fig. A.4: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-60^{\circ}$  to  $-55^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

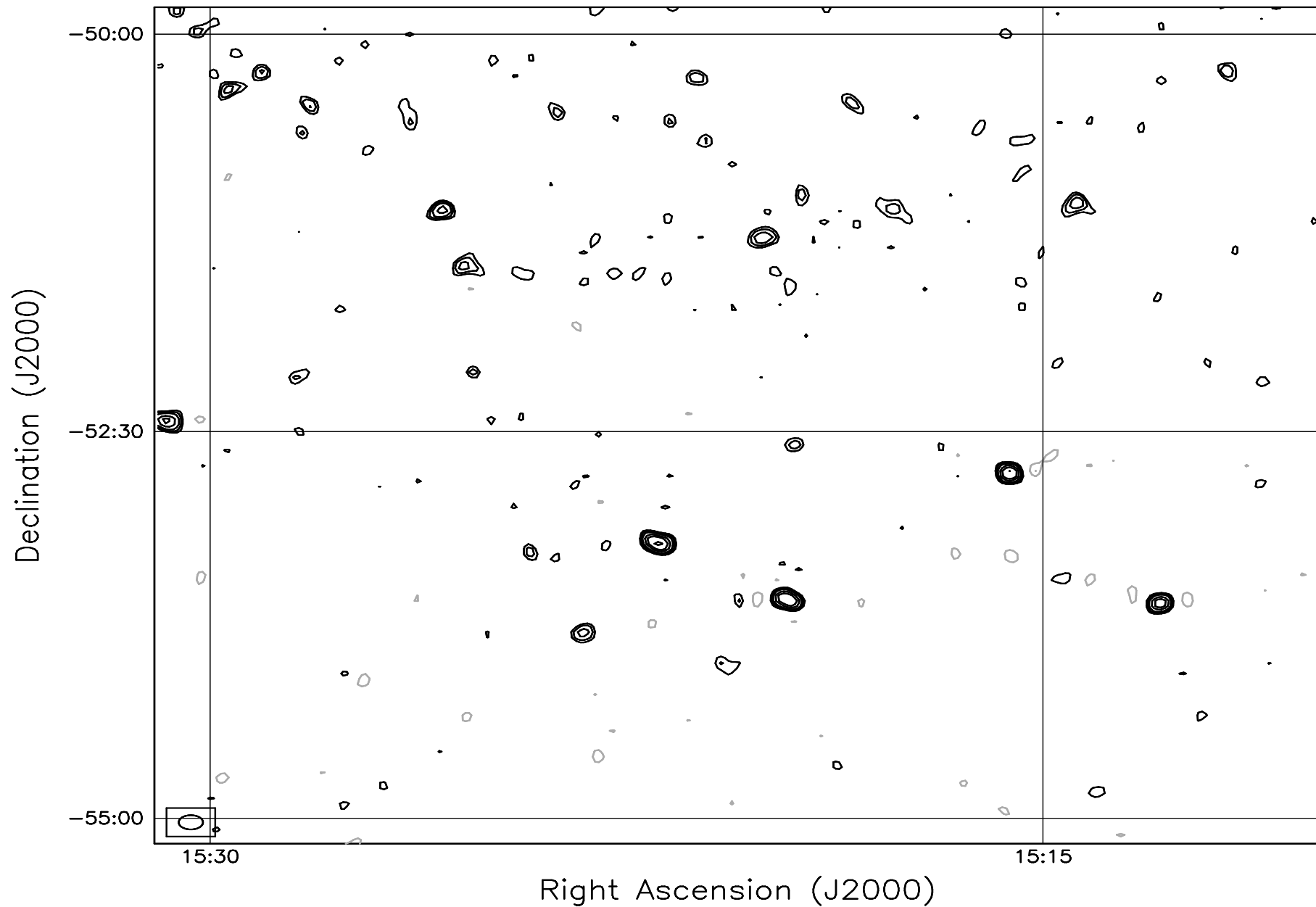


Fig. A.5: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-55^{\circ}$  to  $-50^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

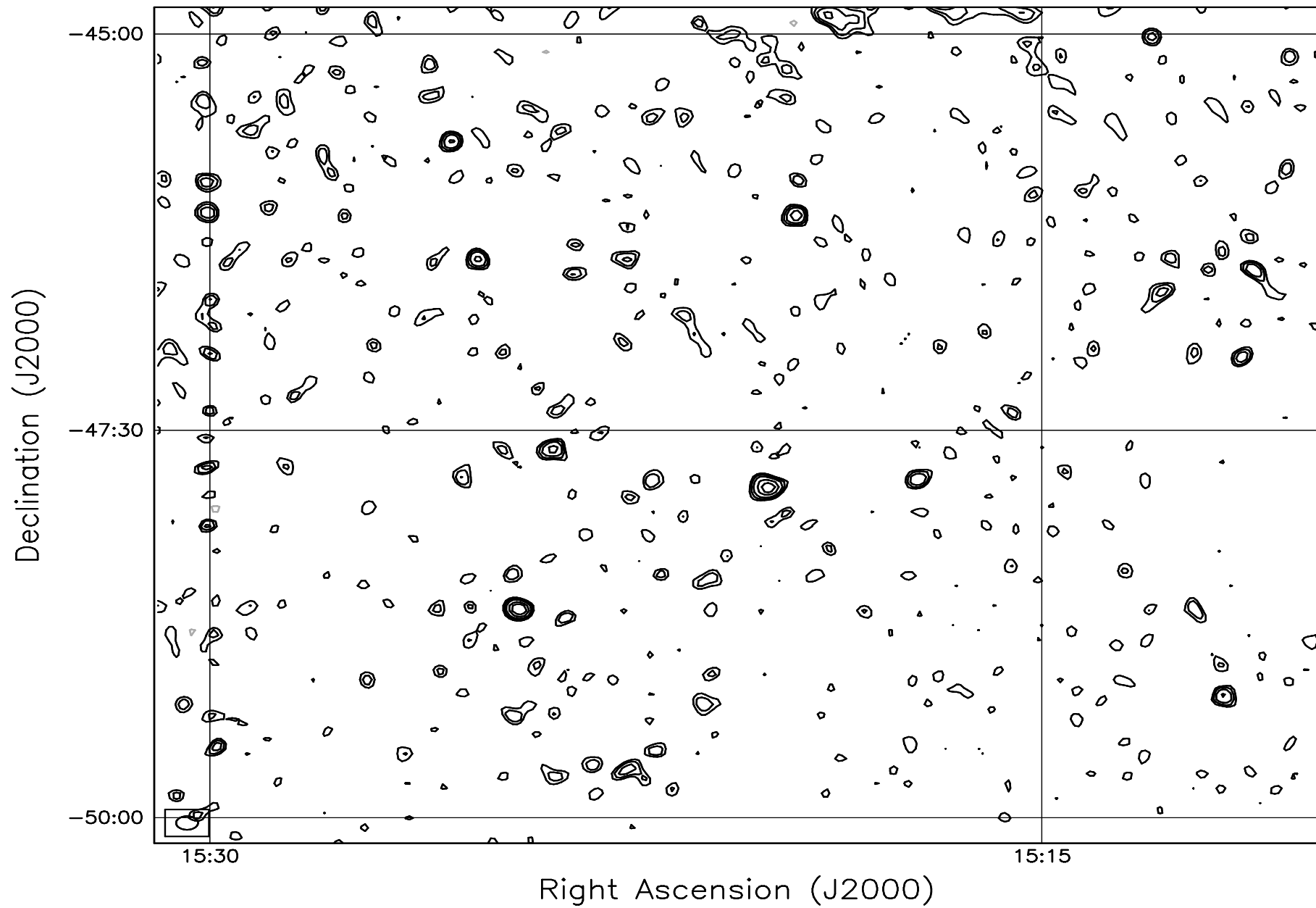


Fig. A.6: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-50^{\circ}$  to  $-45^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

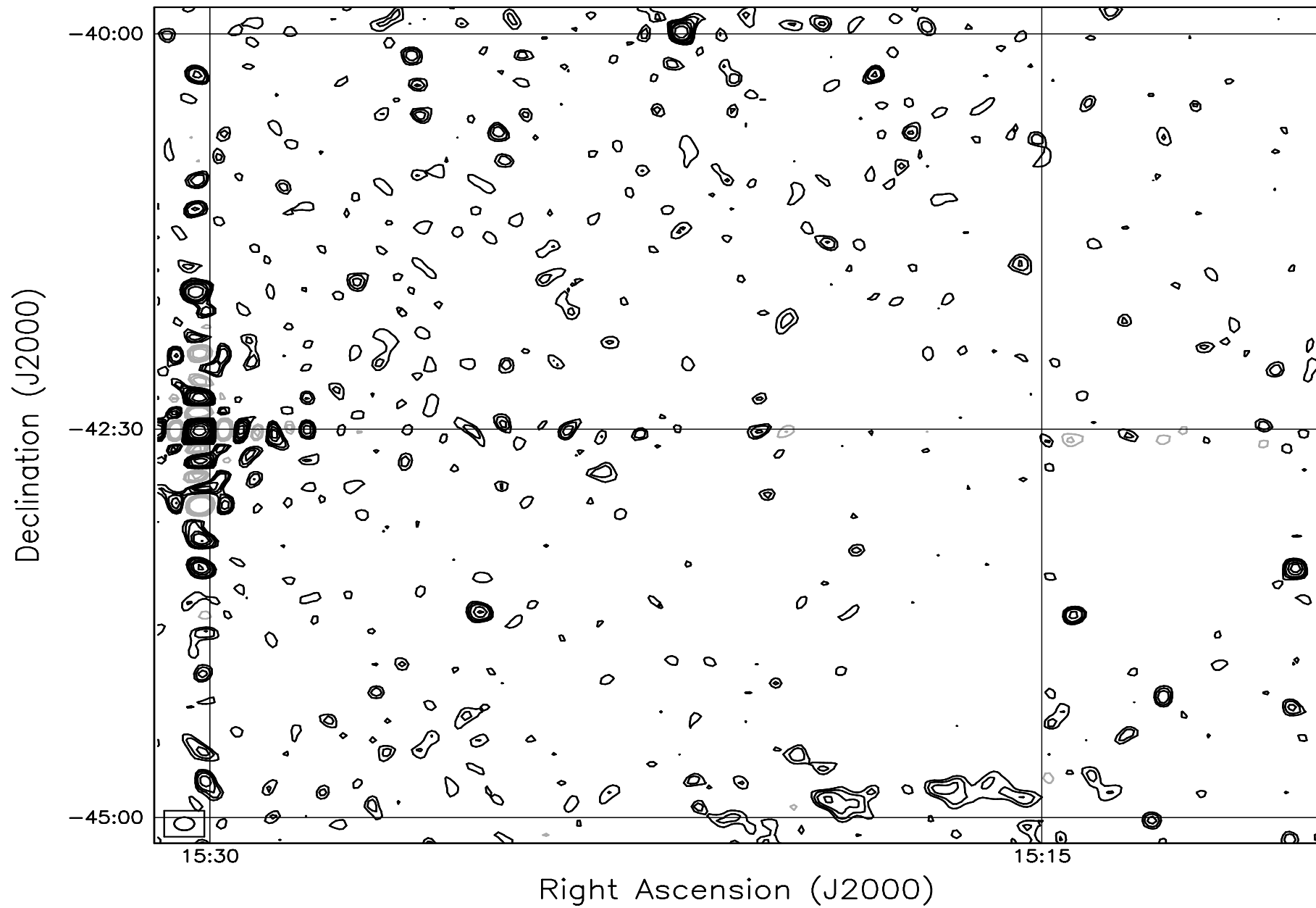


Fig. A.7: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-45^{\circ}$  to  $-40^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

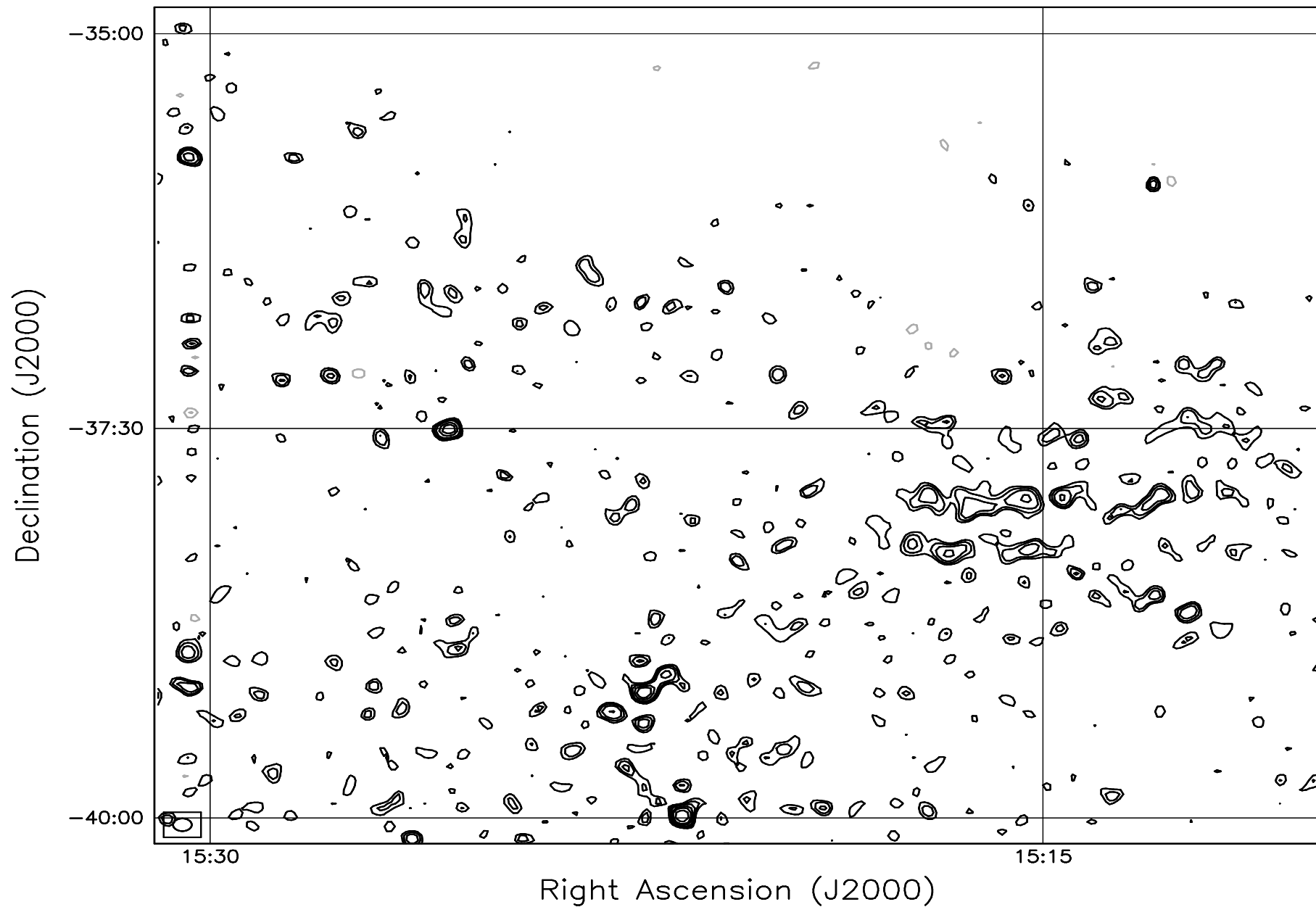


Fig. A.8: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-40^{\circ}$  to  $-35^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

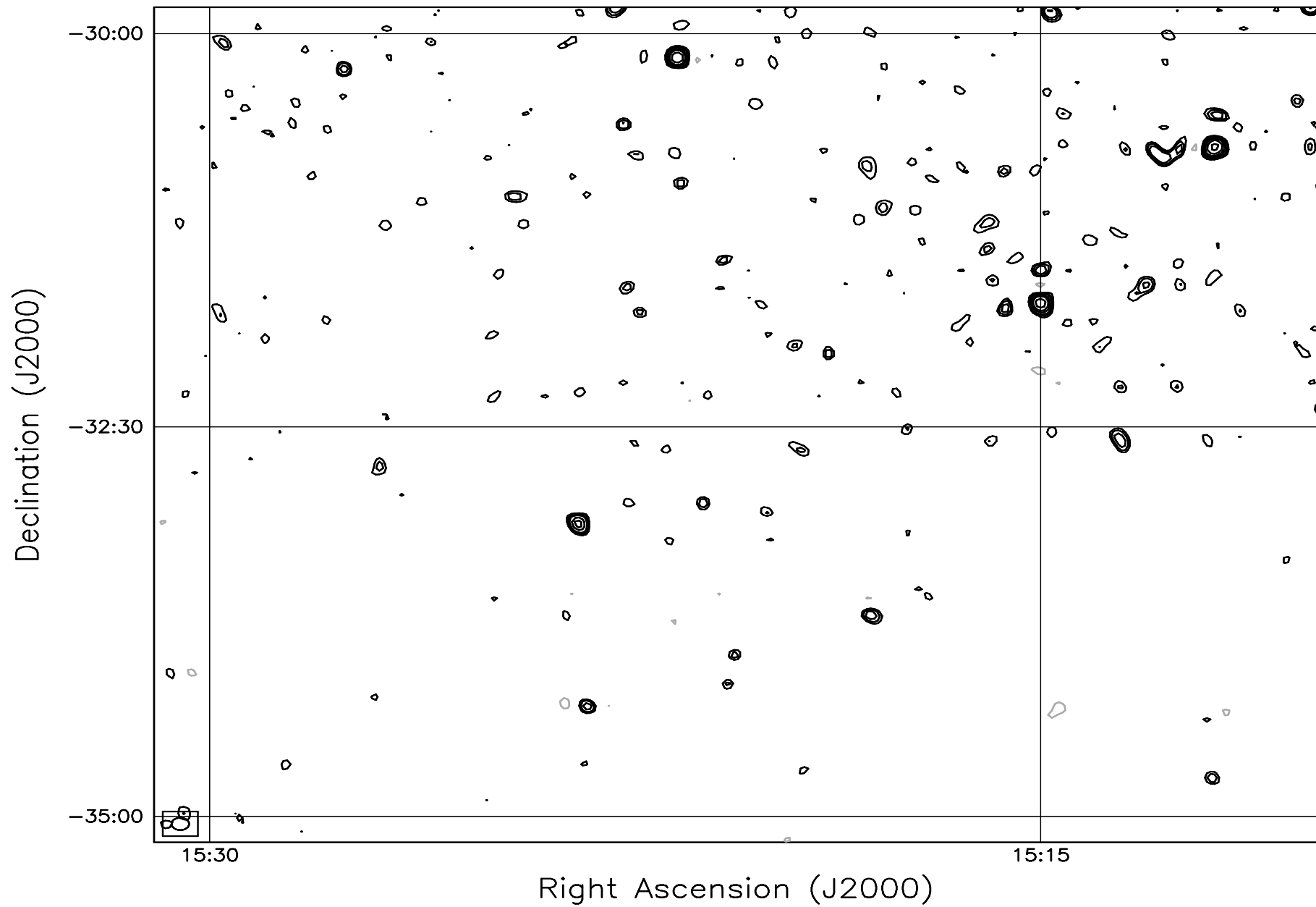


Fig. A.9: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-35^{\circ}$  to  $-30^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

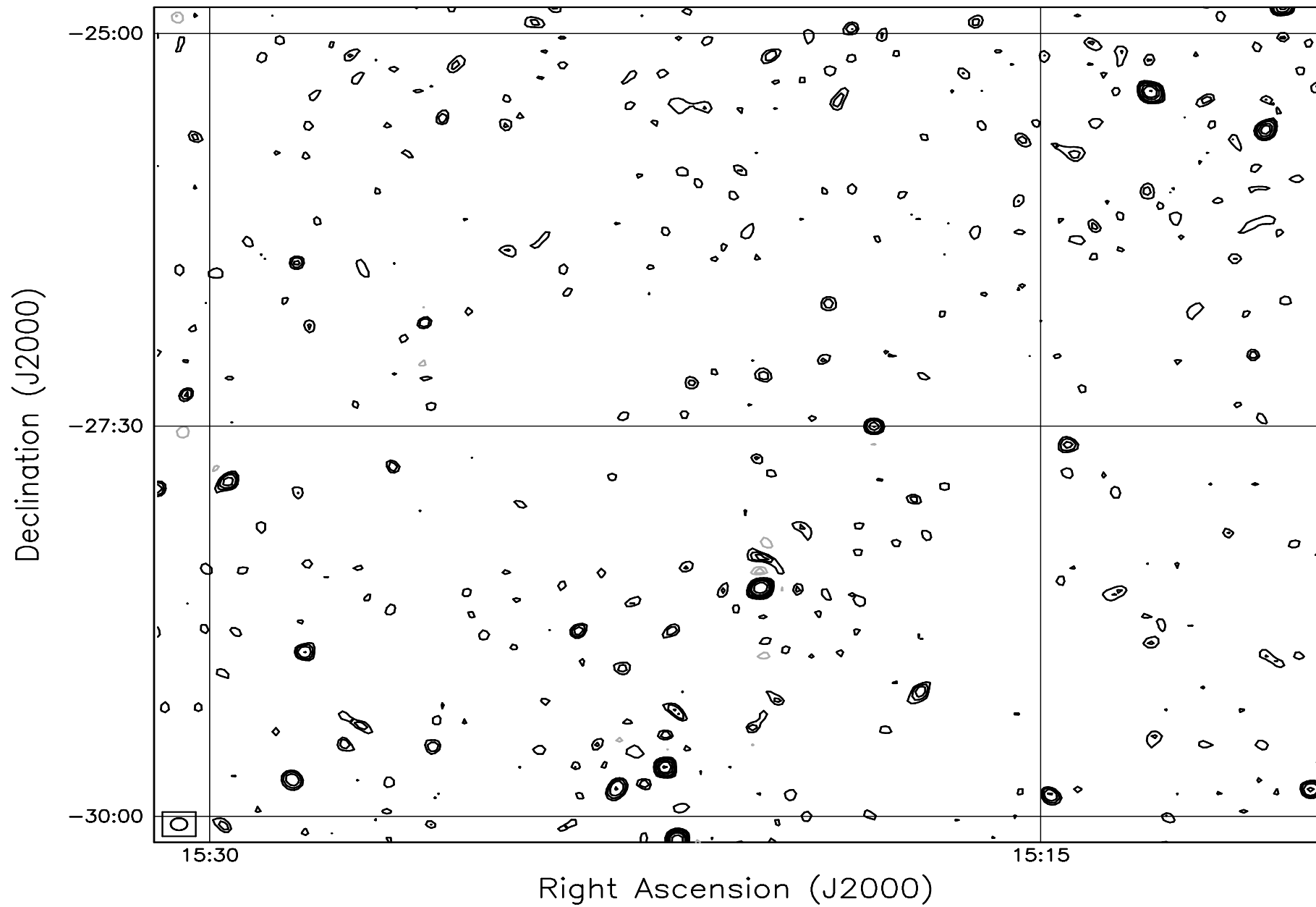


Fig. A.10: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-30^{\circ}$  to  $-25^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



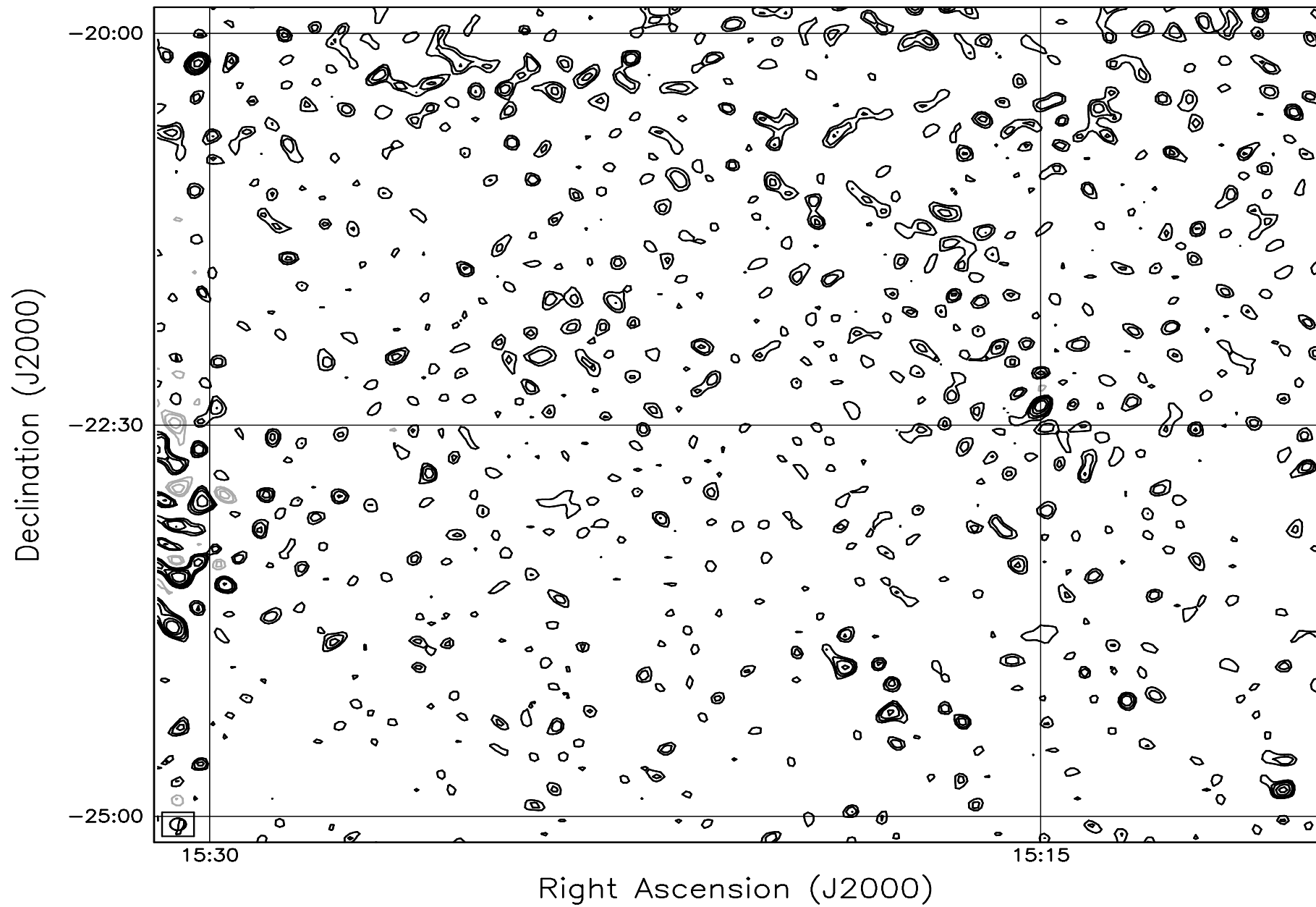


Fig. A.11: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-25^{\circ}$  to  $-20^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

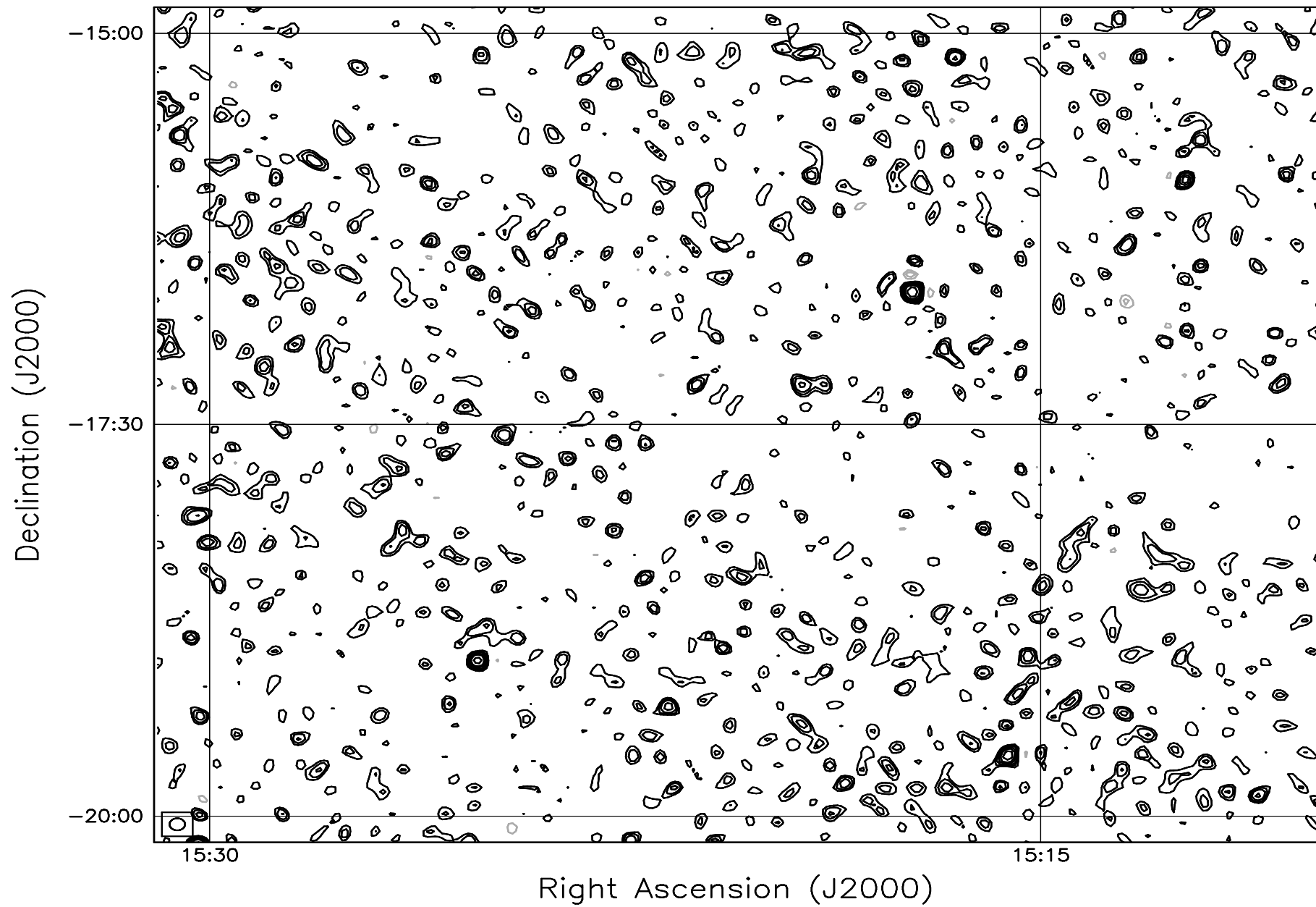


Fig. A.12: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-20^{\circ}$  to  $-15^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

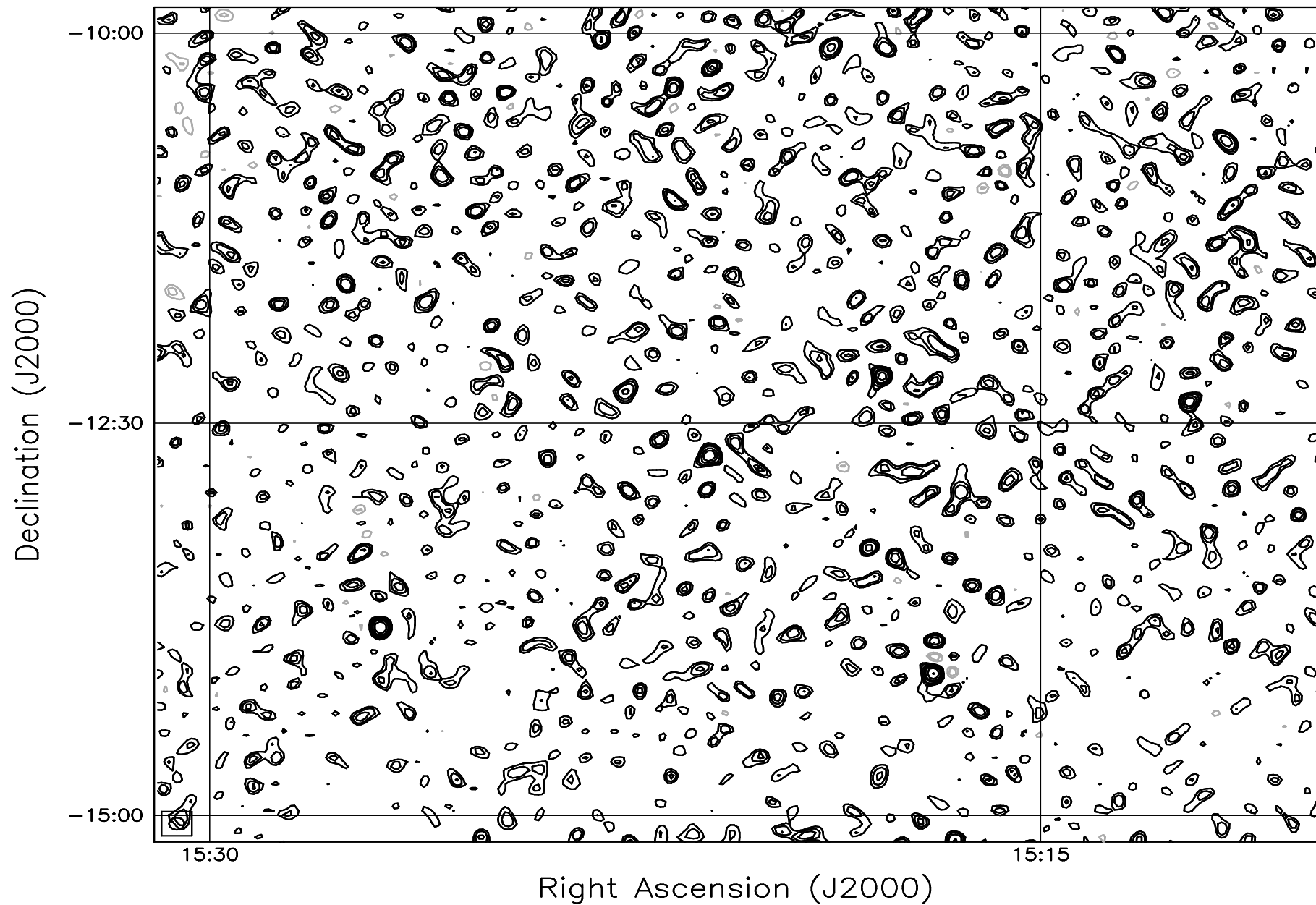


Fig. A.13: Contour map covering the right ascension range 15h06m to 15h30m and declination range  $-15^{\circ}$  to  $-10^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

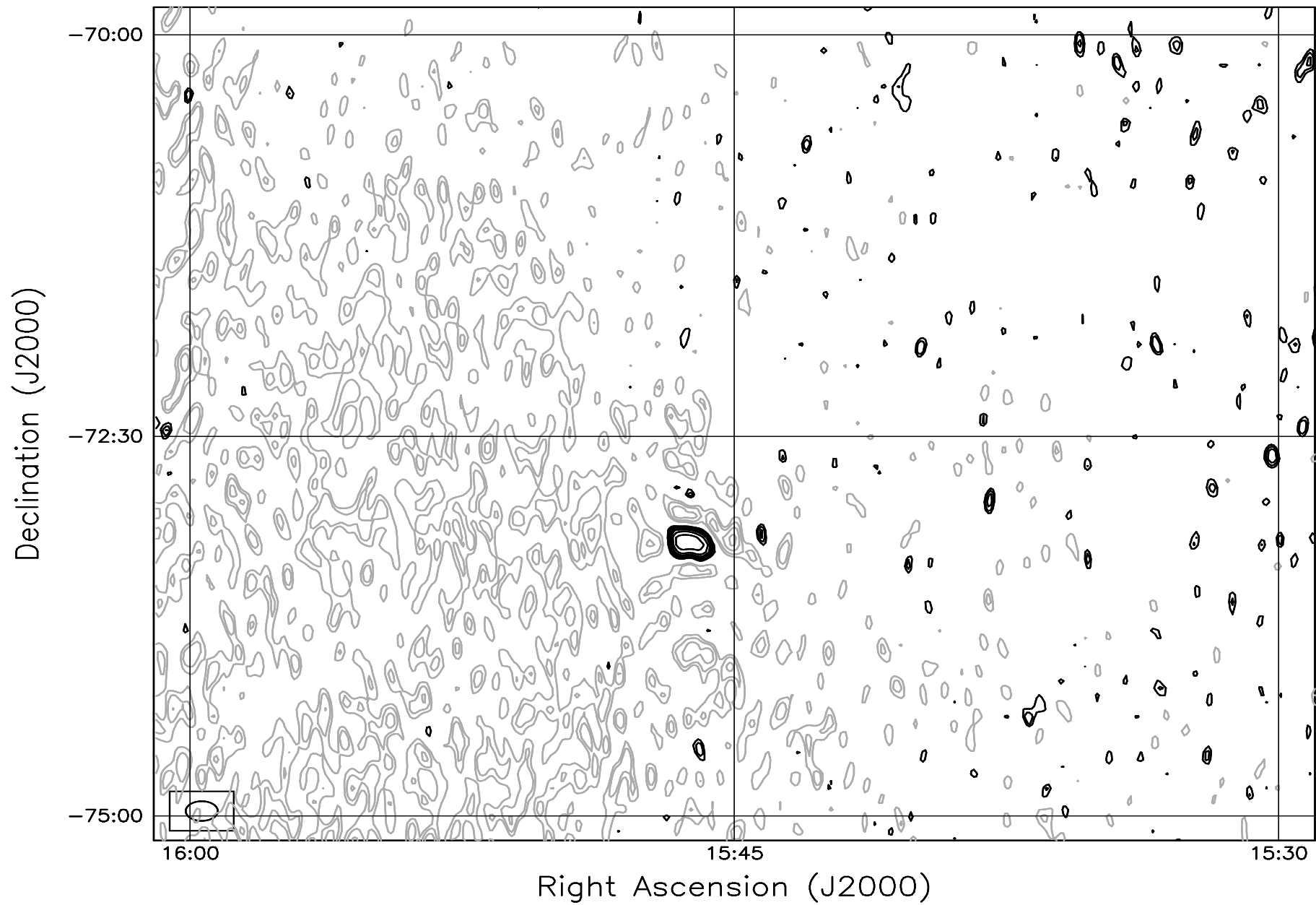


Fig. A.14: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-75^{\circ}$  to  $-70^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

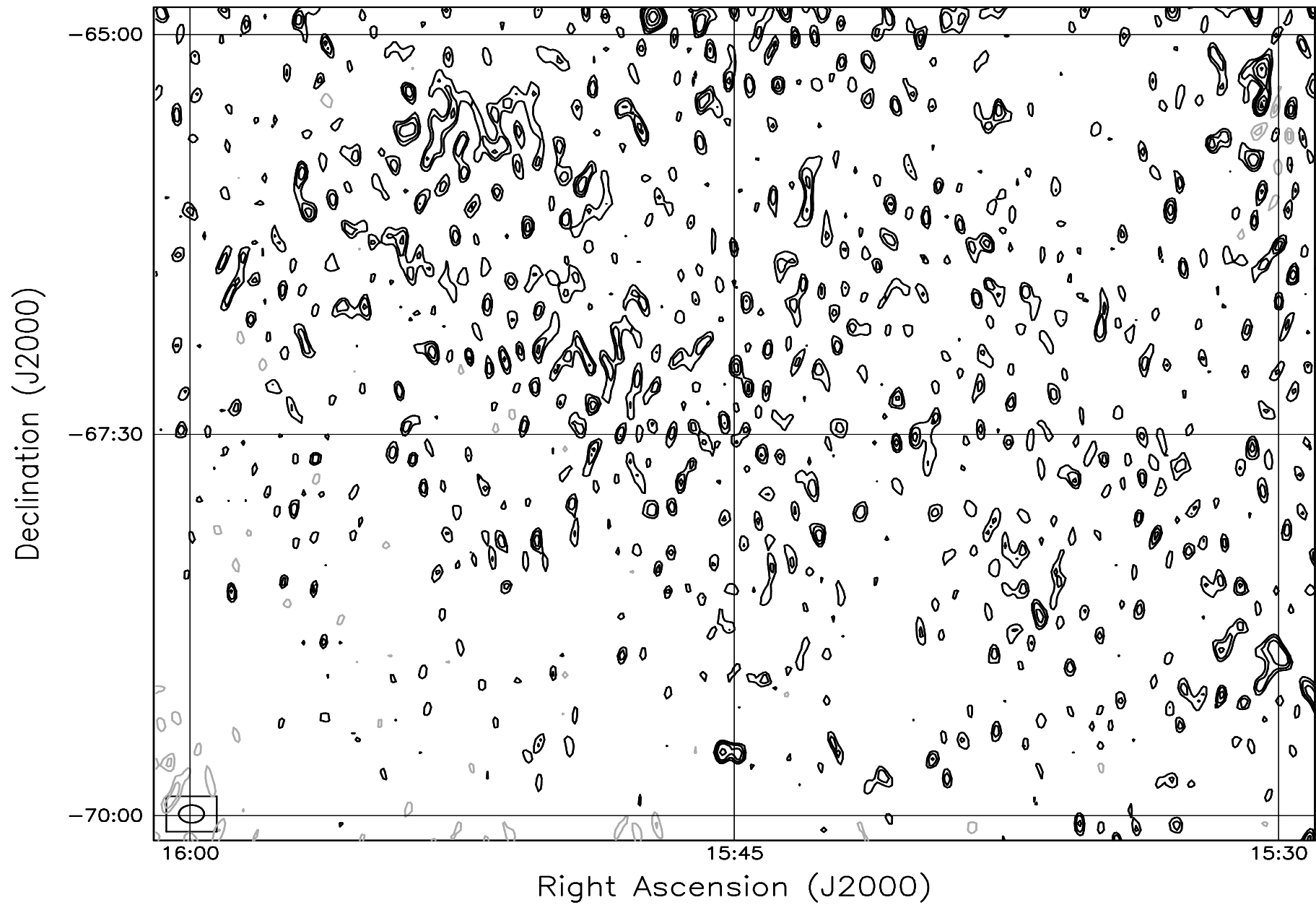


Fig. A.15: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-70^{\circ}$  to  $-65^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

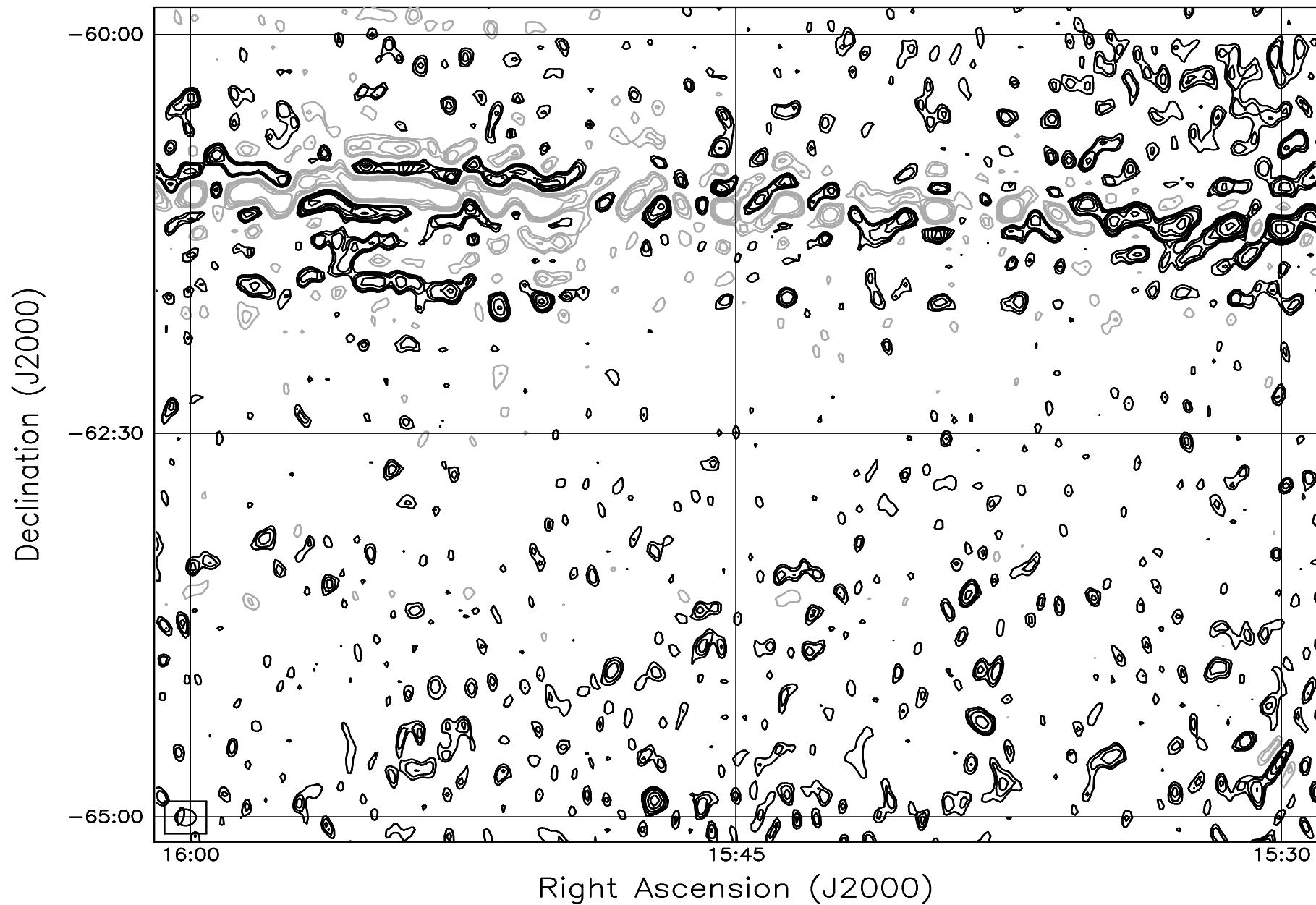


Fig. A.16: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-65^{\circ}$  to  $-60^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

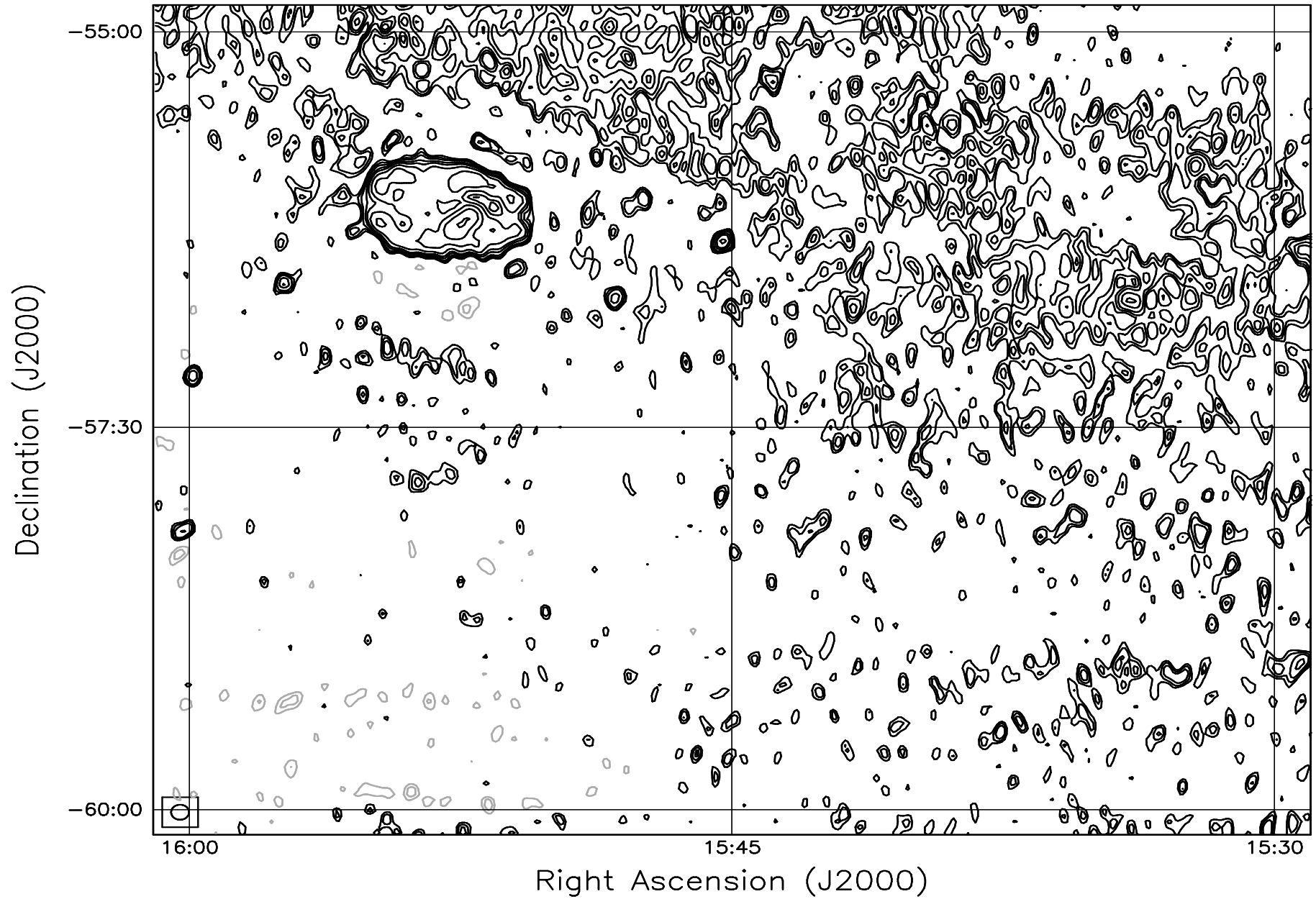


Fig. A.17: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-60^\circ$  to  $-55^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

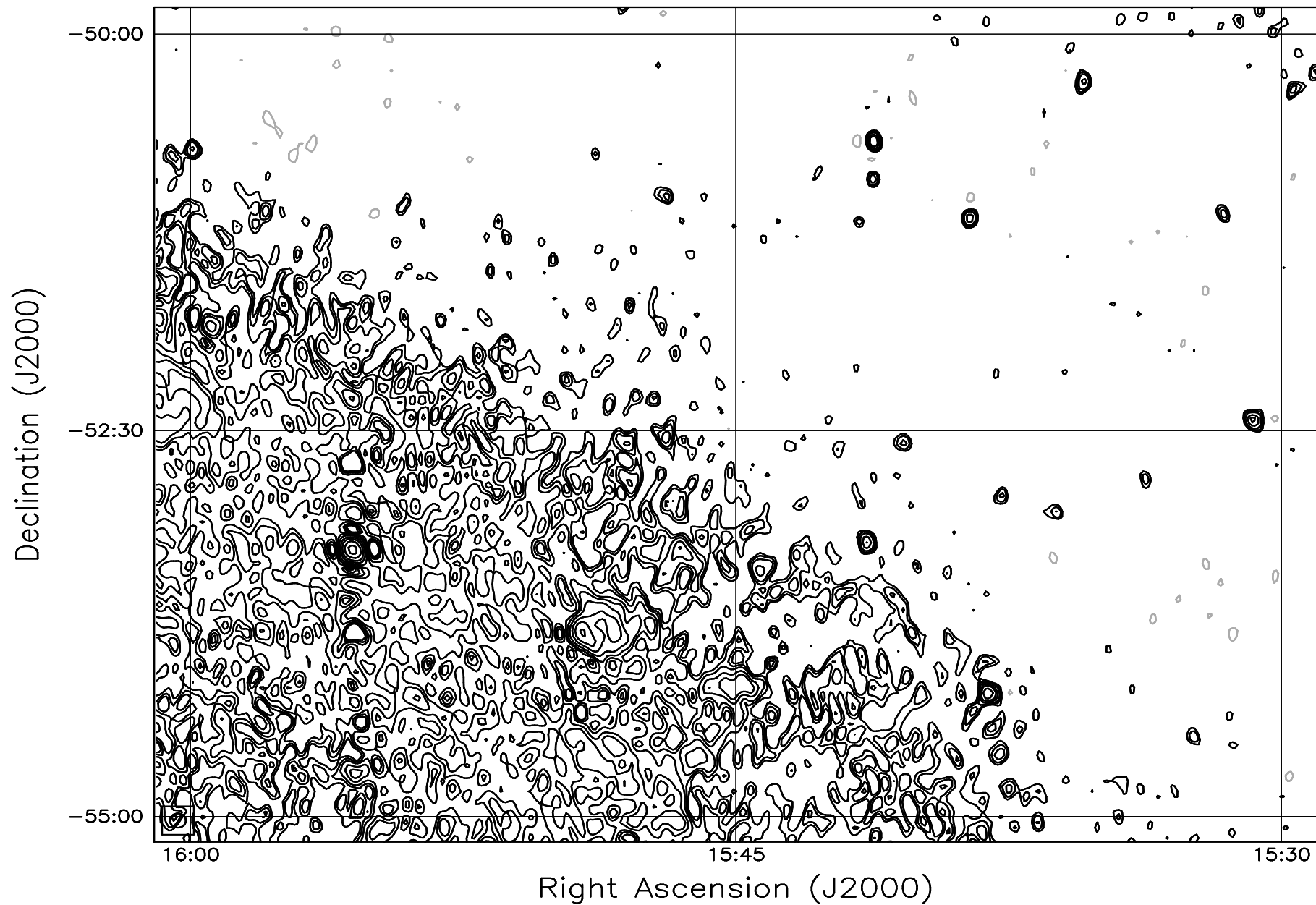


Fig. A.18: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-55^{\circ}$  to  $-50^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



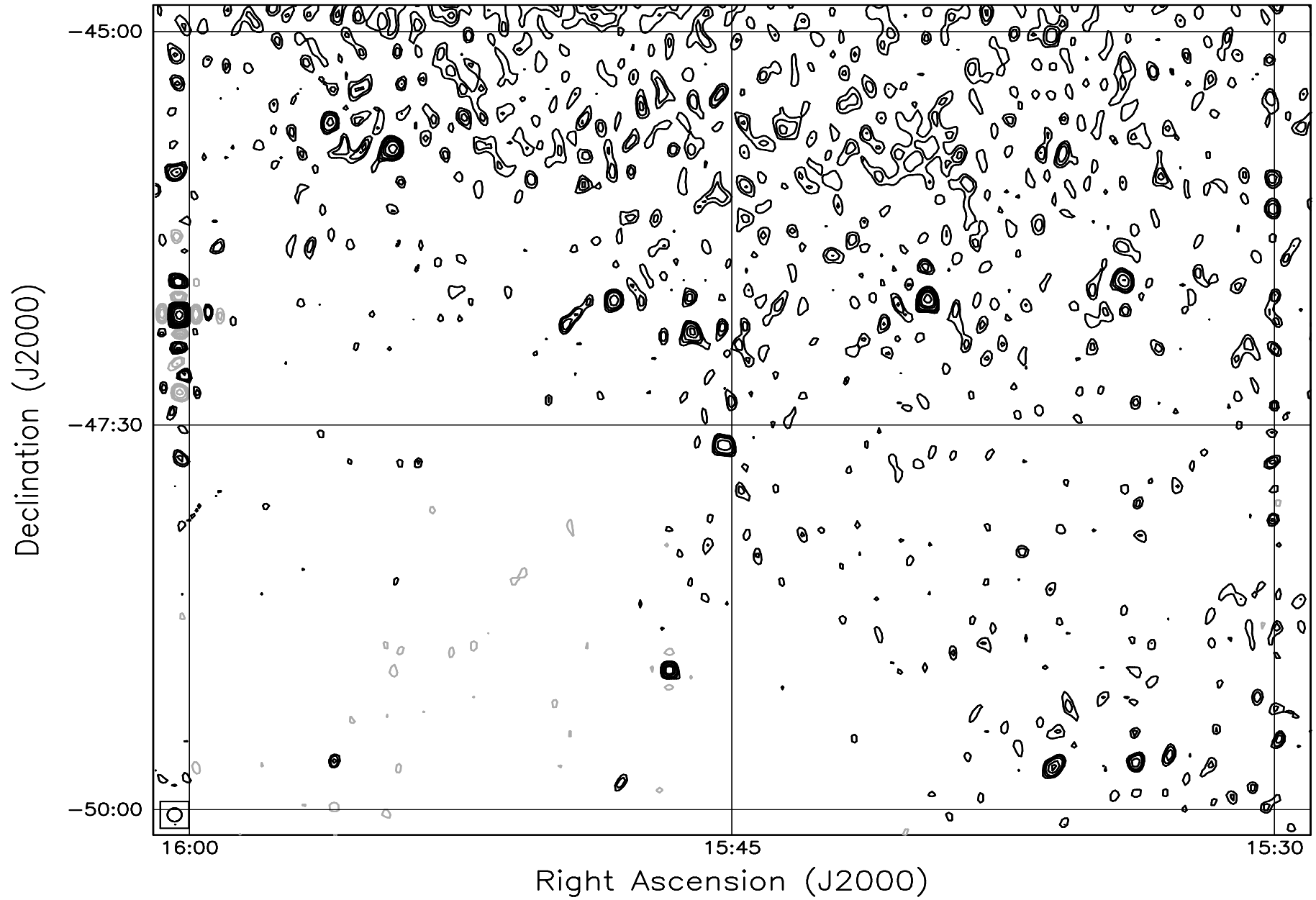


Fig. A.19: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-50^{\circ}$  to  $-45^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

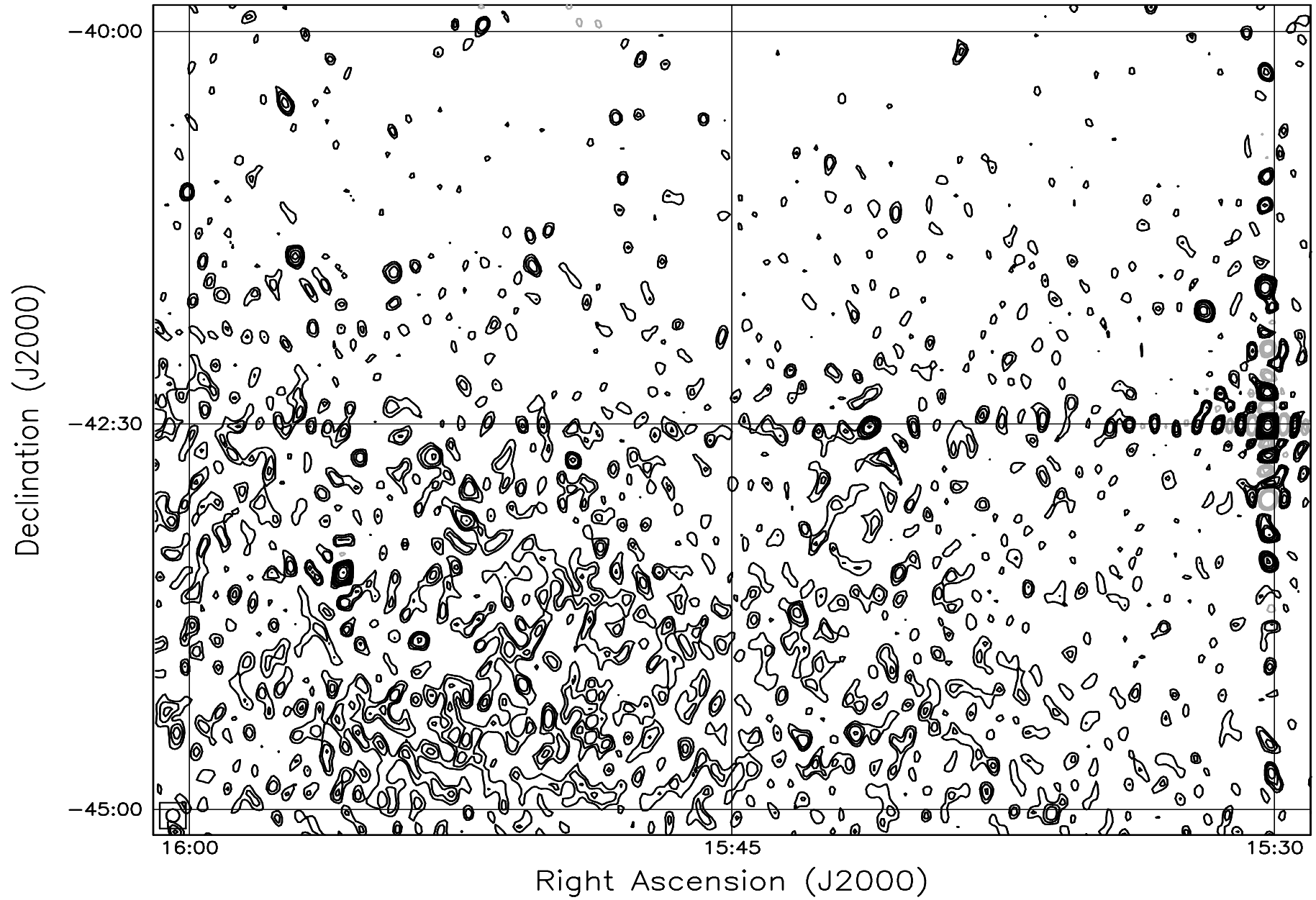


Fig. A.20: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-45^{\circ}$  to  $-40^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

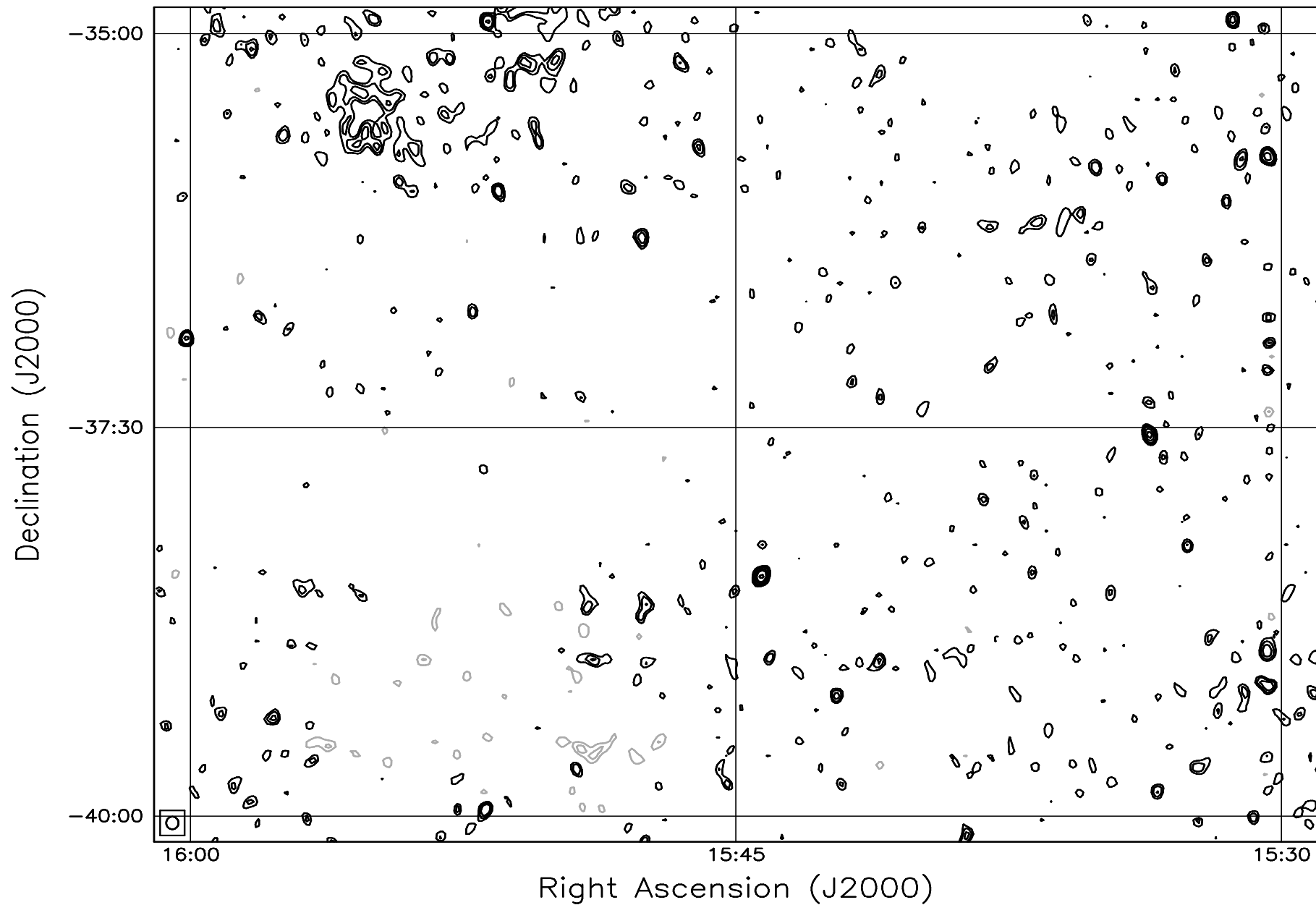


Fig. A.21: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-40^\circ$  to  $-35^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

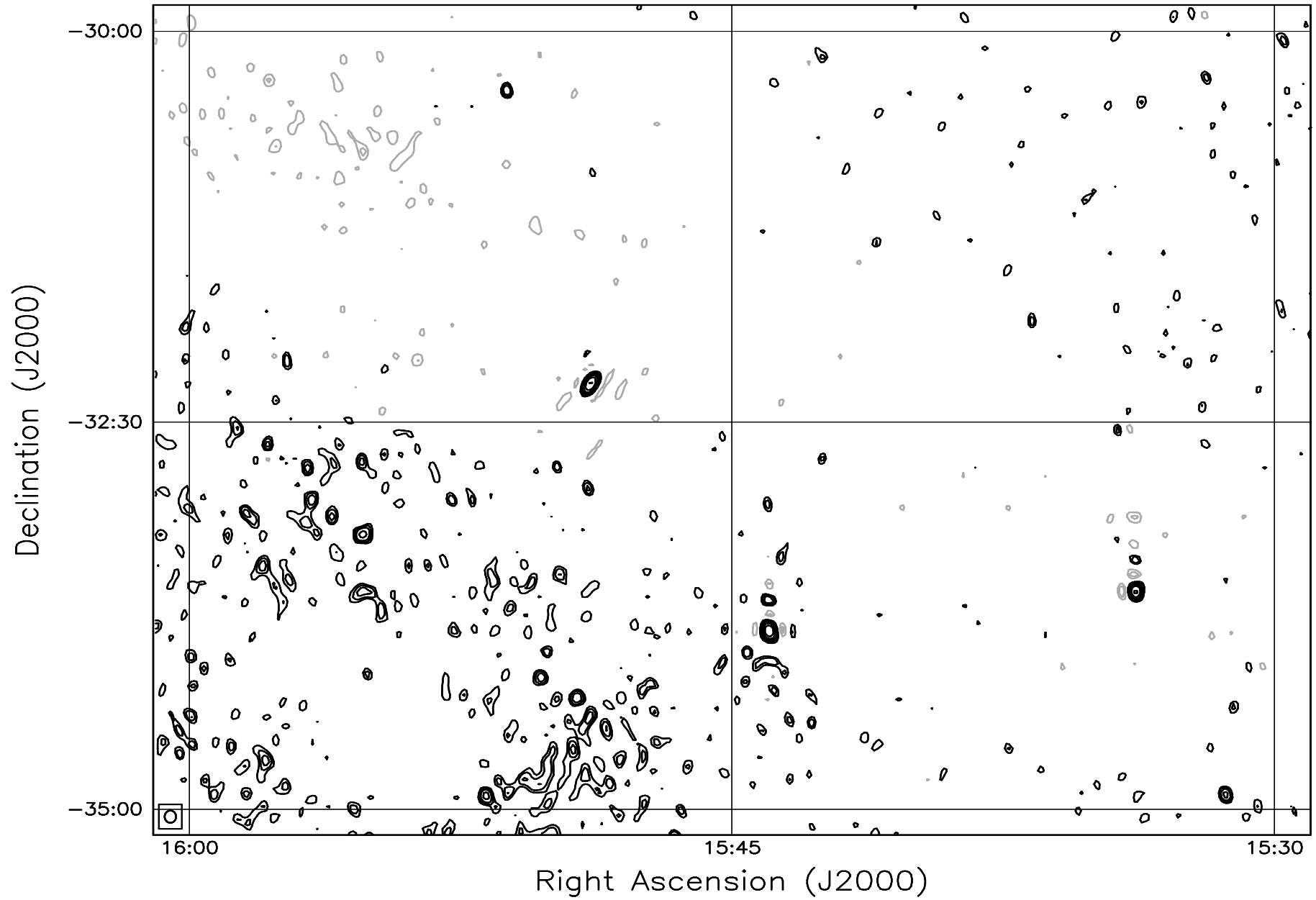


Fig. A.22: Contour map covering the right ascension range 15h30m to 16h00m and declination range -35° to -30°. The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

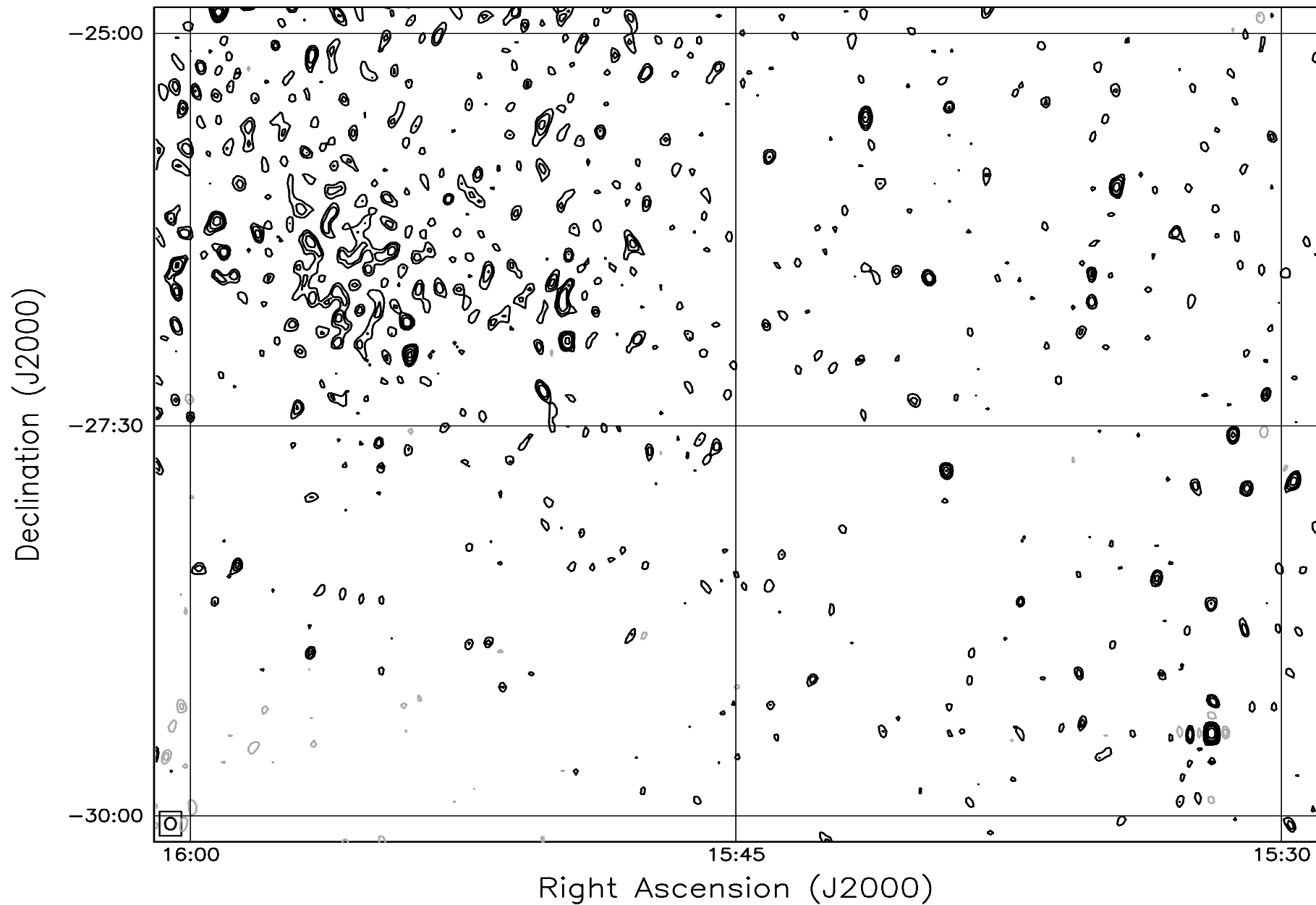


Fig. A.23: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-30^\circ$  to  $-25^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

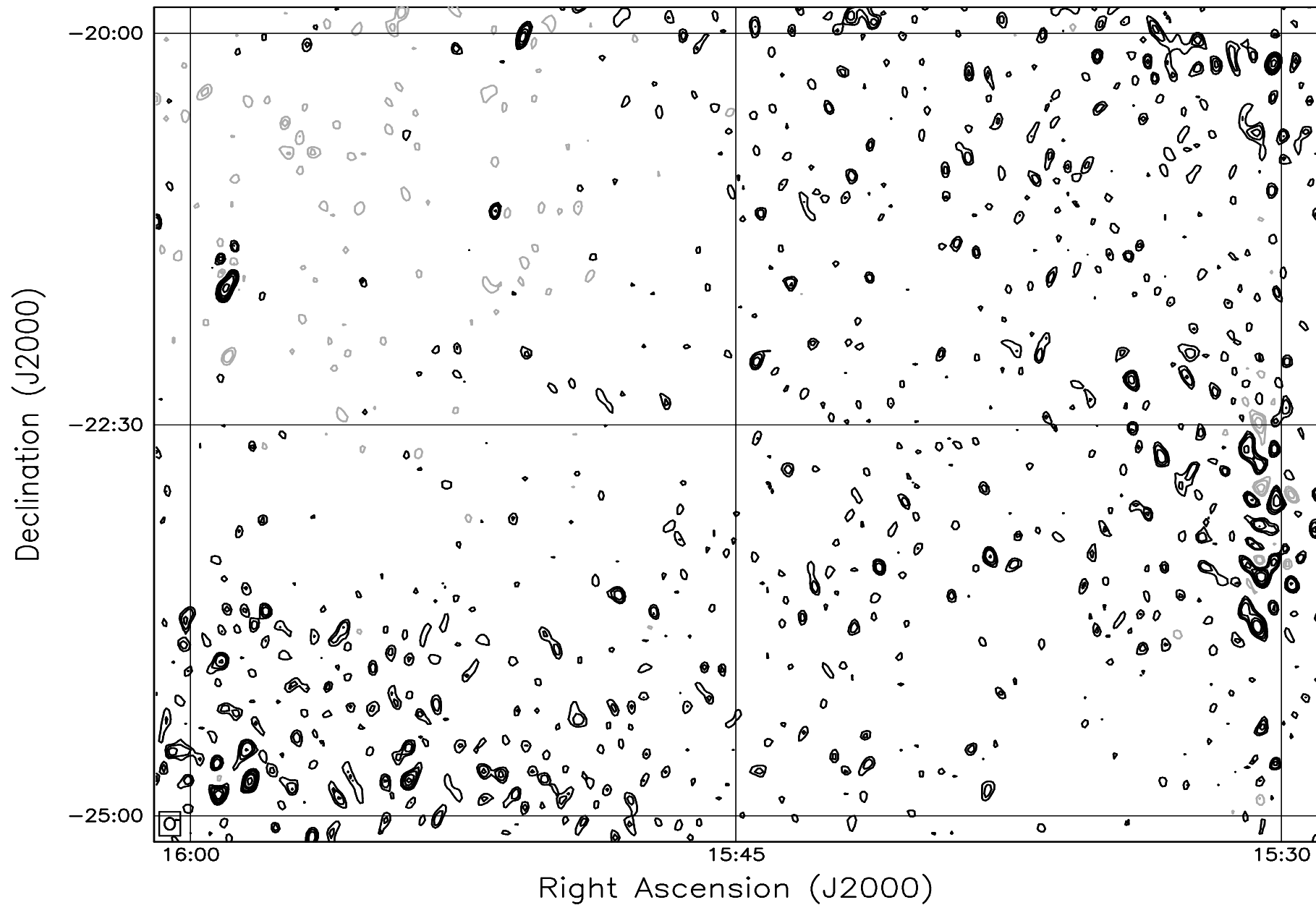


Fig. A.24: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-25^{\circ}$  to  $-20^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

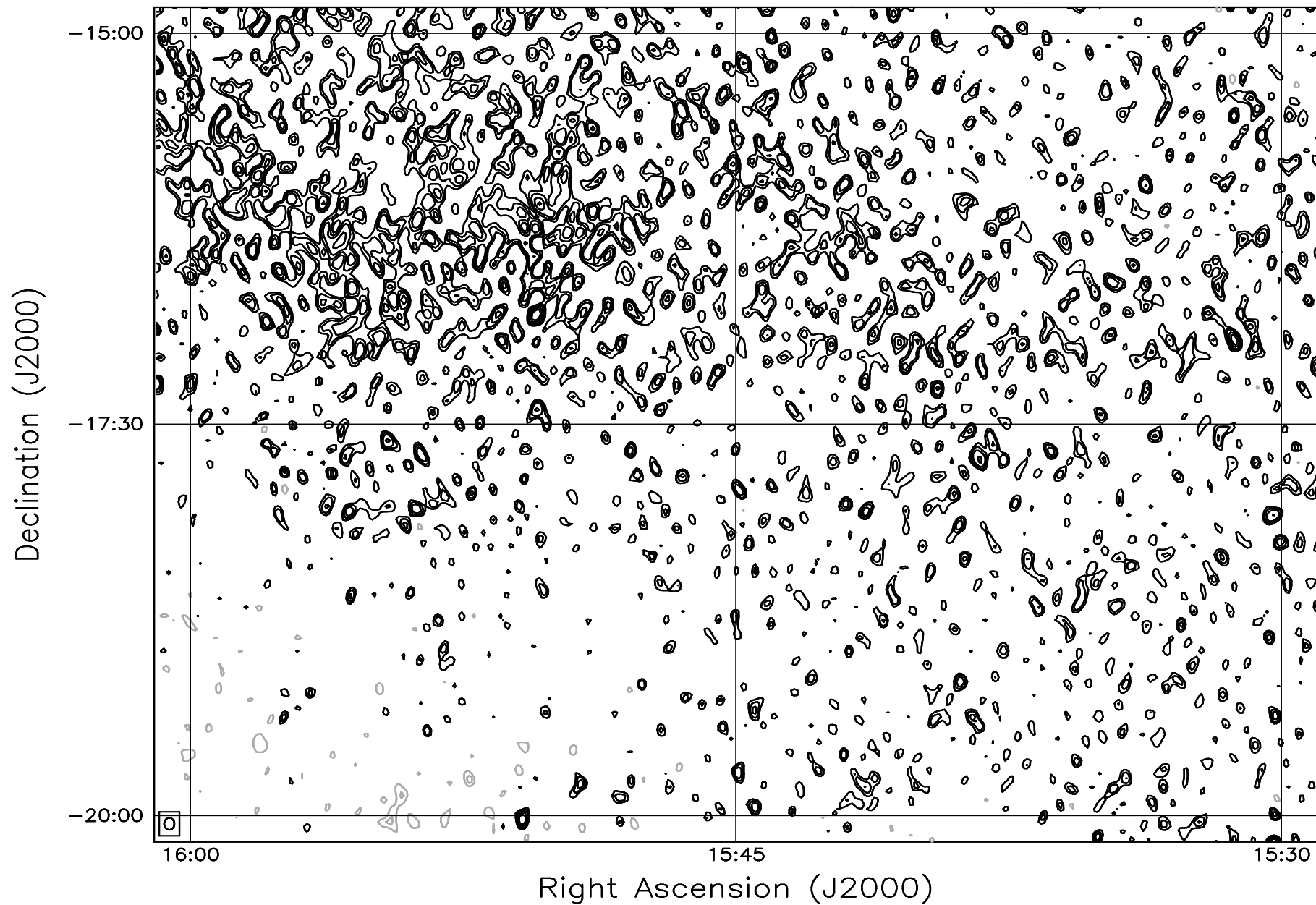


Fig. A.25: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-20^{\circ}$  to  $-15^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

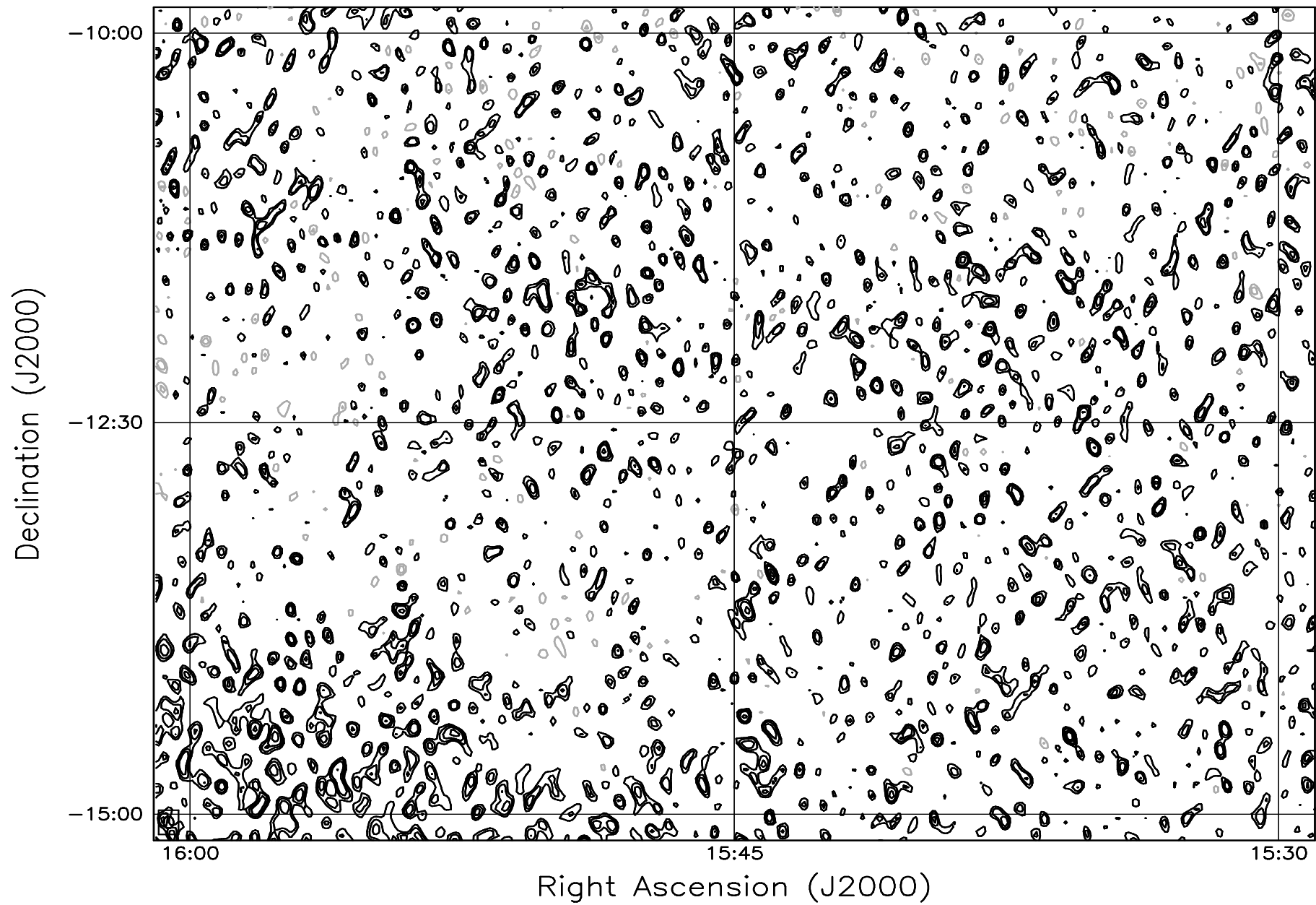


Fig. A.26: Contour map covering the right ascension range 15h30m to 16h00m and declination range  $-15^{\circ}$  to  $-10^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



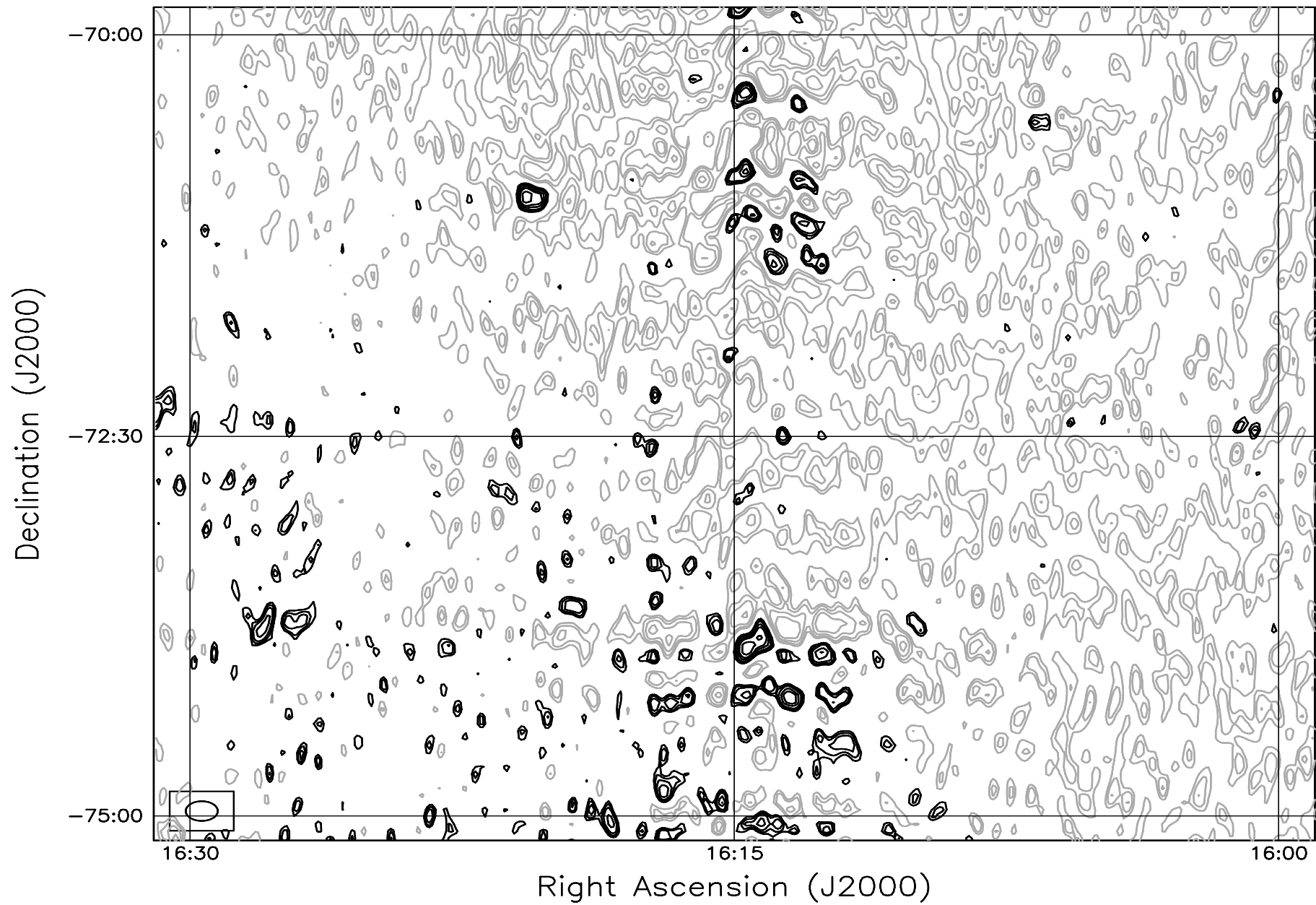


Fig. A.27: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-75^\circ$  to  $-70^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

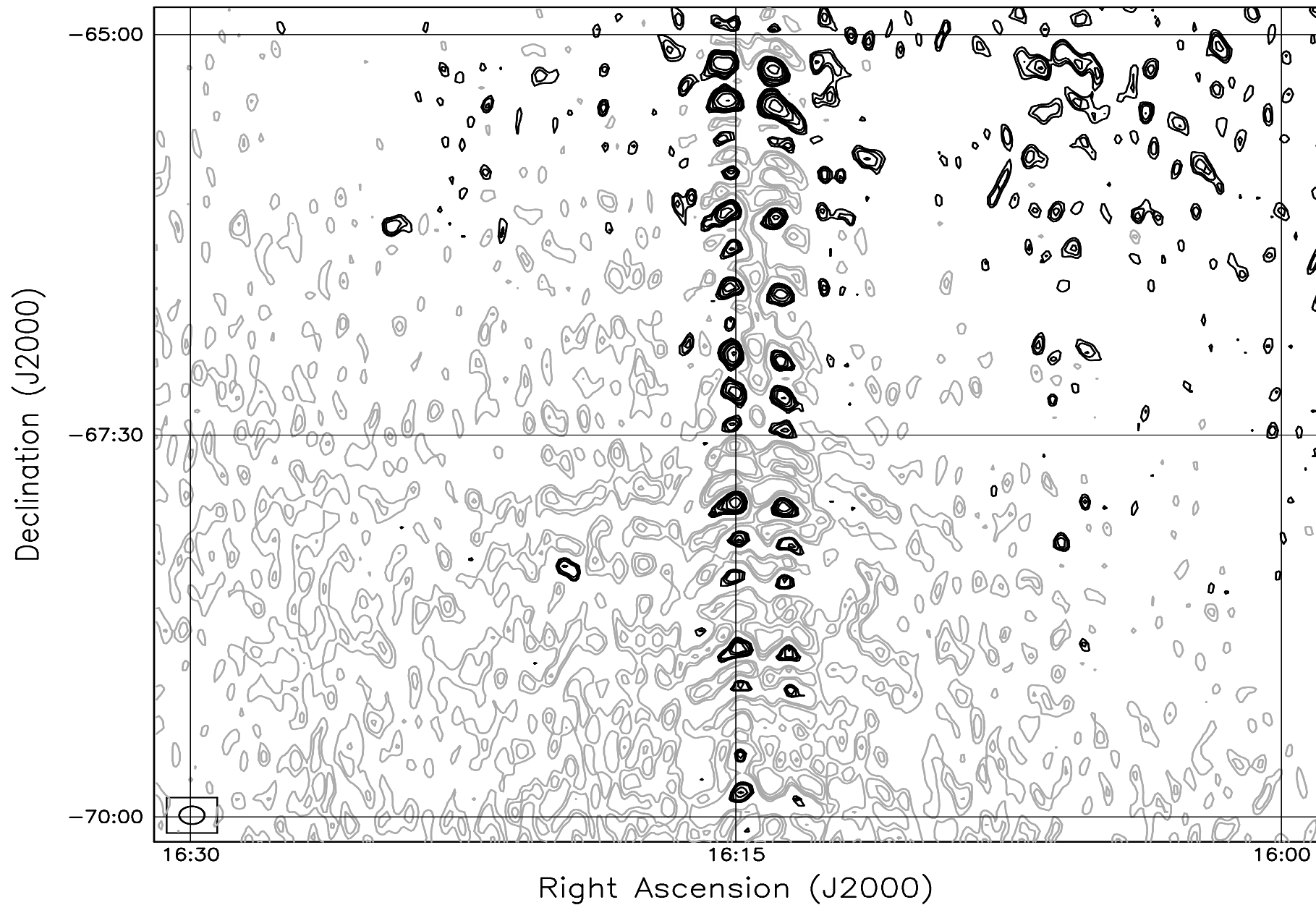


Fig. A.28: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-70^{\circ}$  to  $-65^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

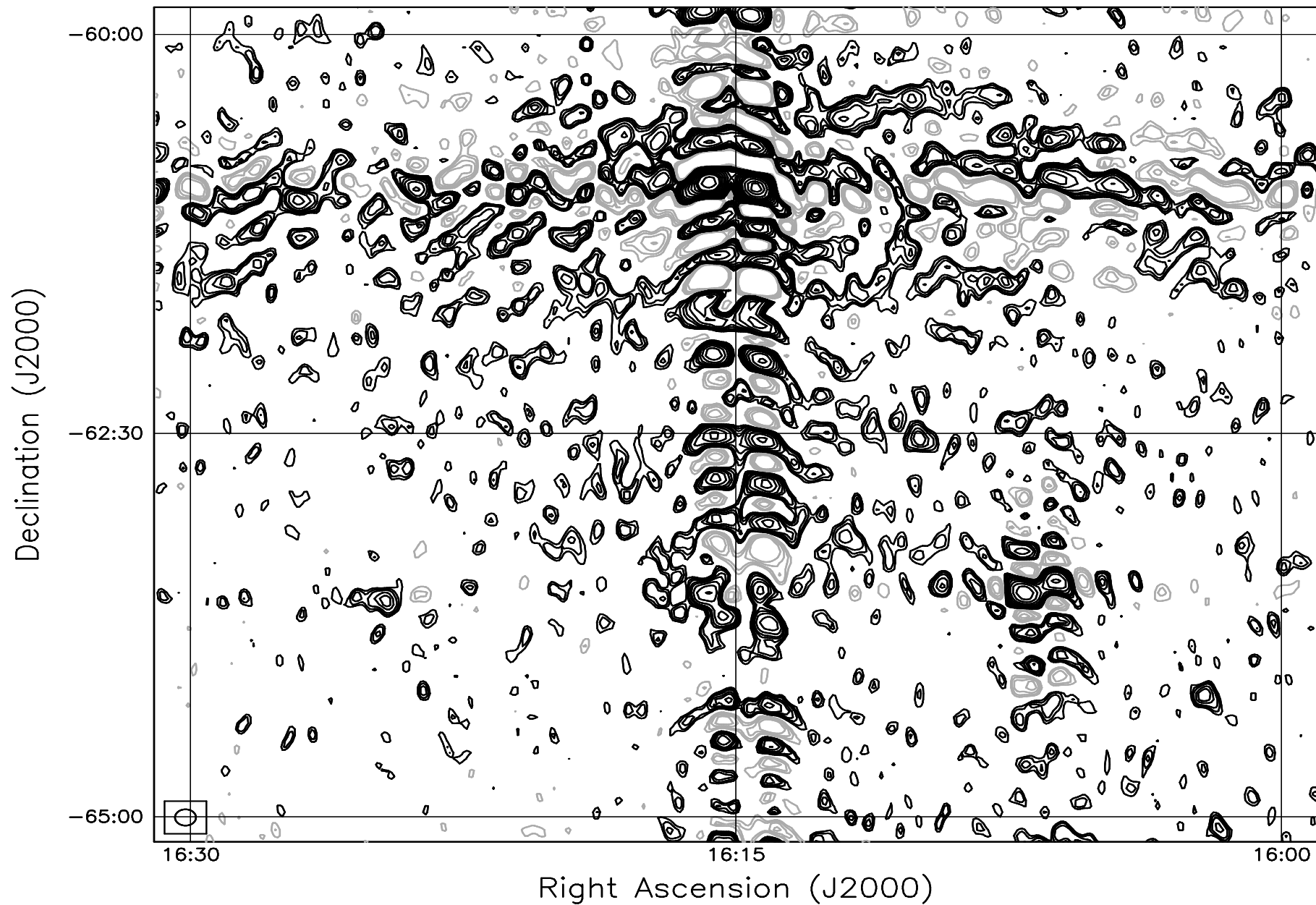


Fig. A.29: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-65^{\circ}$  to  $-60^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

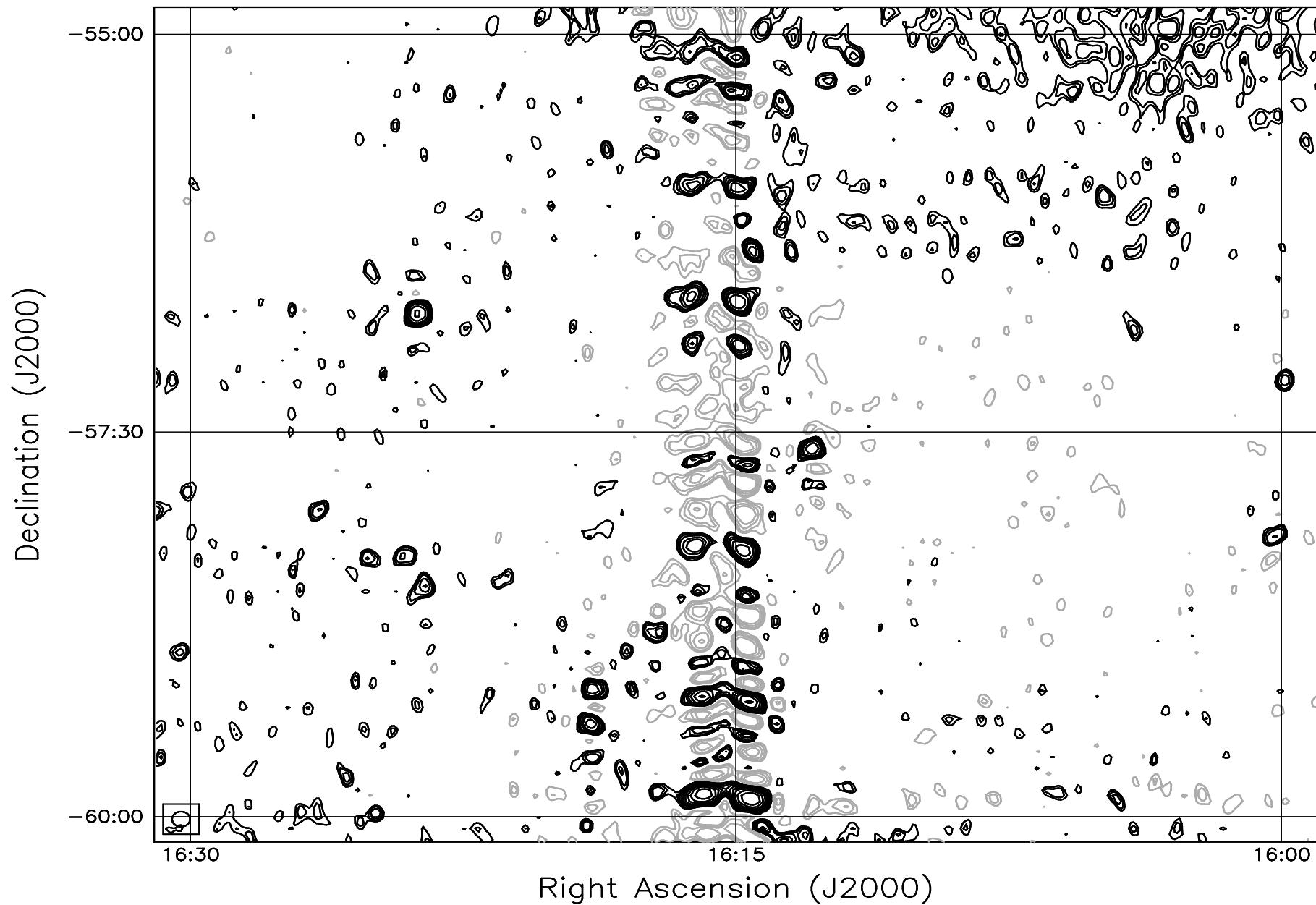


Fig. A.30: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-60^{\circ}$  to  $-55^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

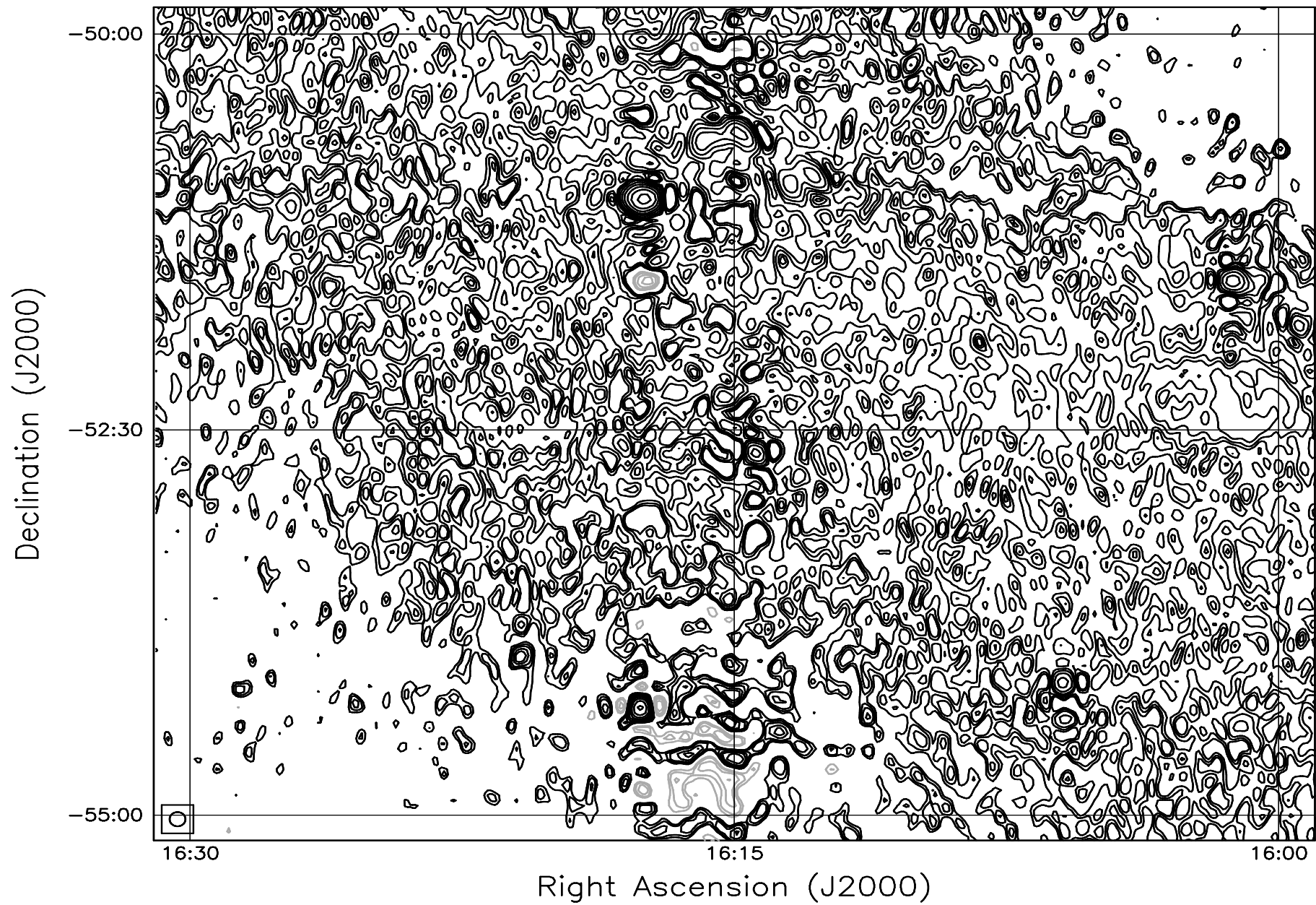


Fig. A.31: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-55^{\circ}$  to  $-50^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

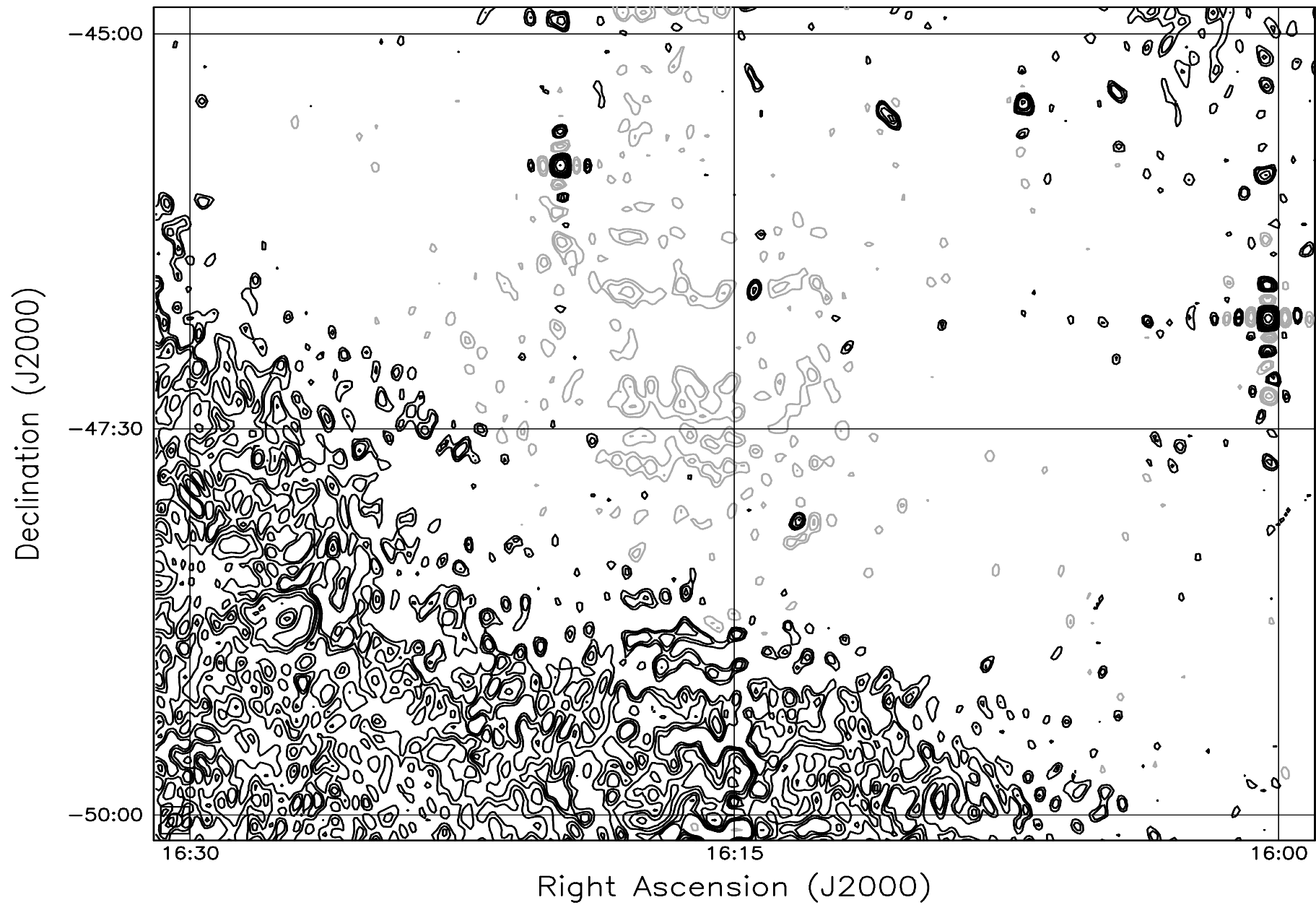


Fig. A.32: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-50^{\circ}$  to  $-45^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

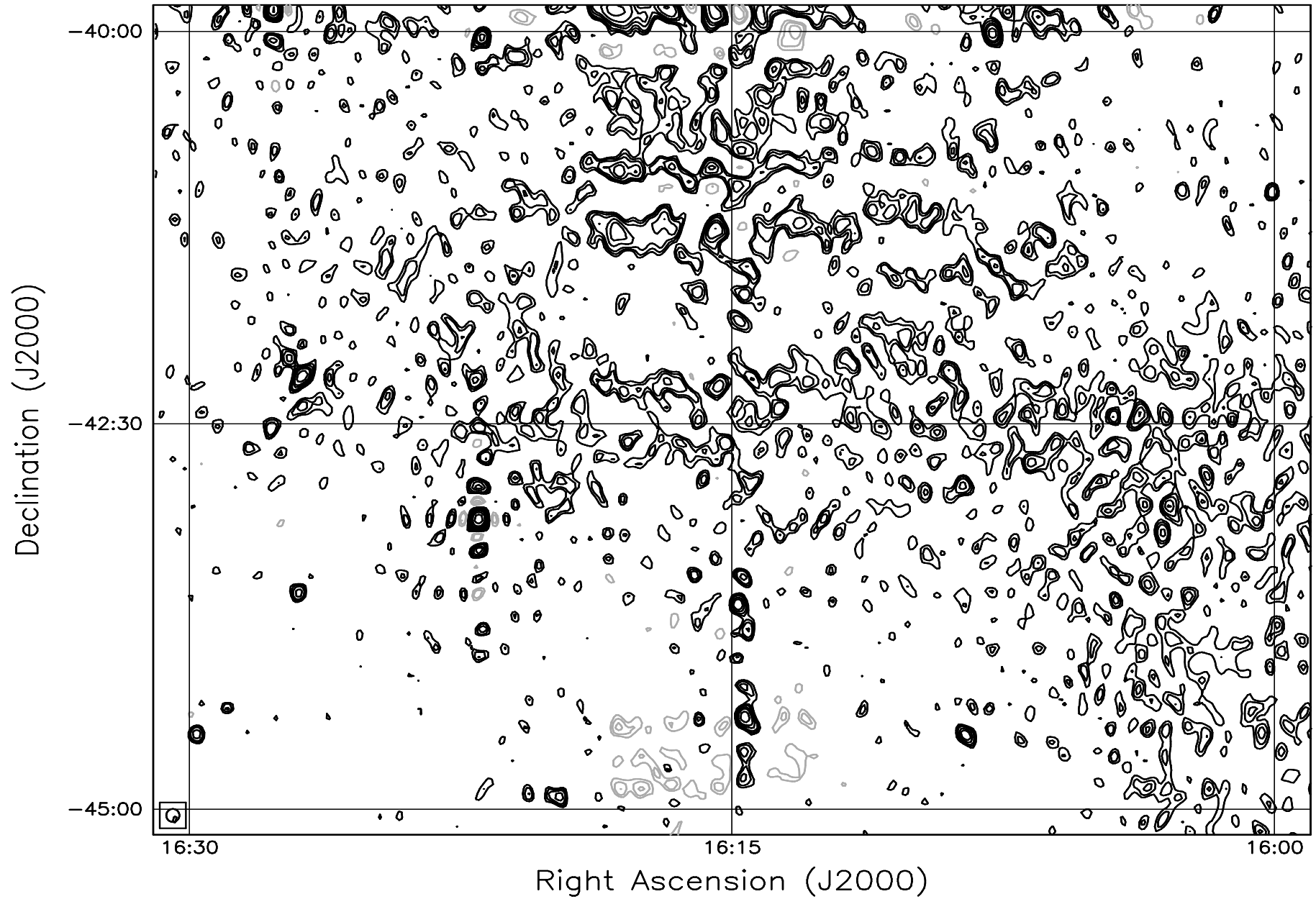


Fig. A.33: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-45^\circ$  to  $-40^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

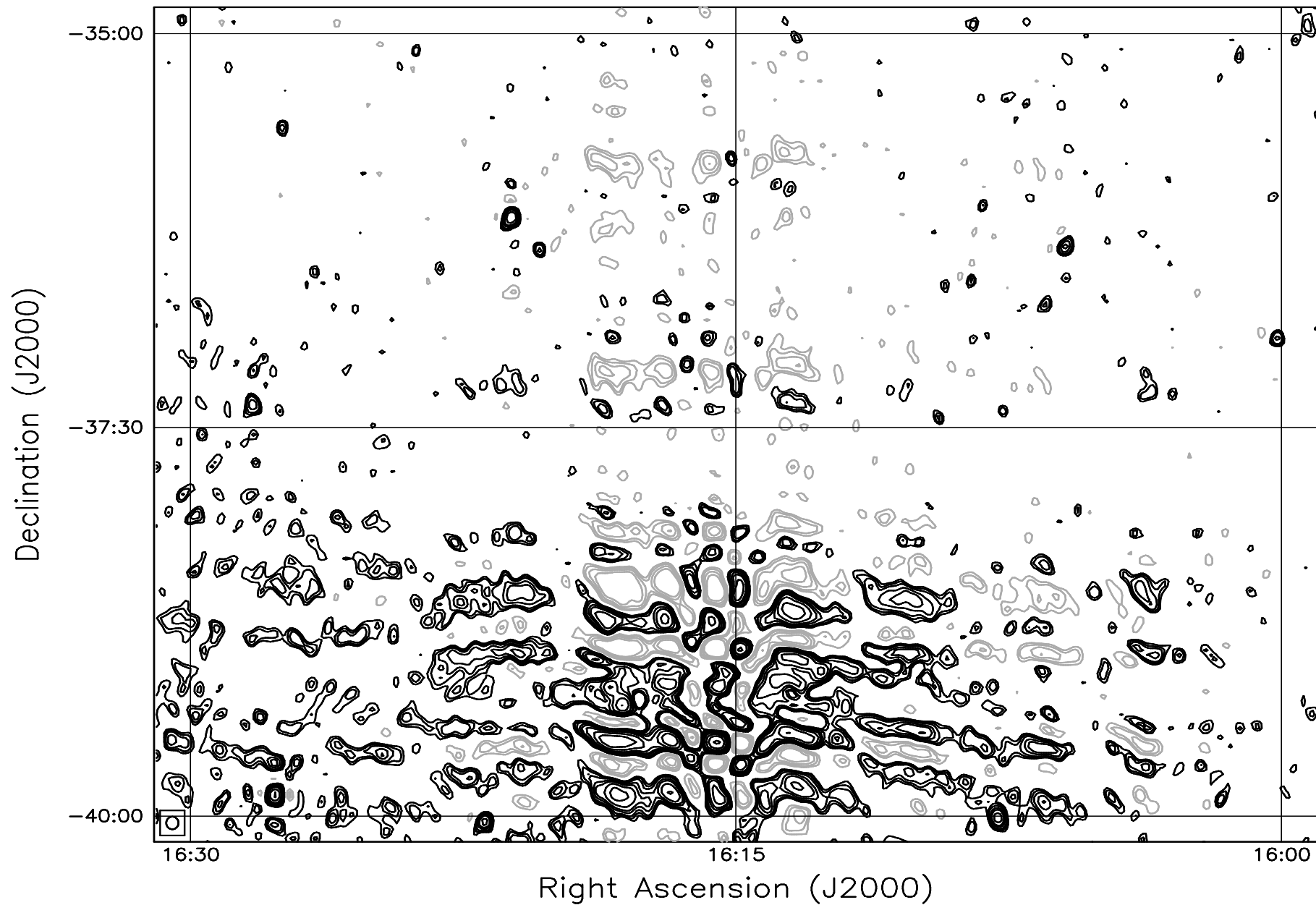


Fig. A.34: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-40^{\circ}$  to  $-35^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



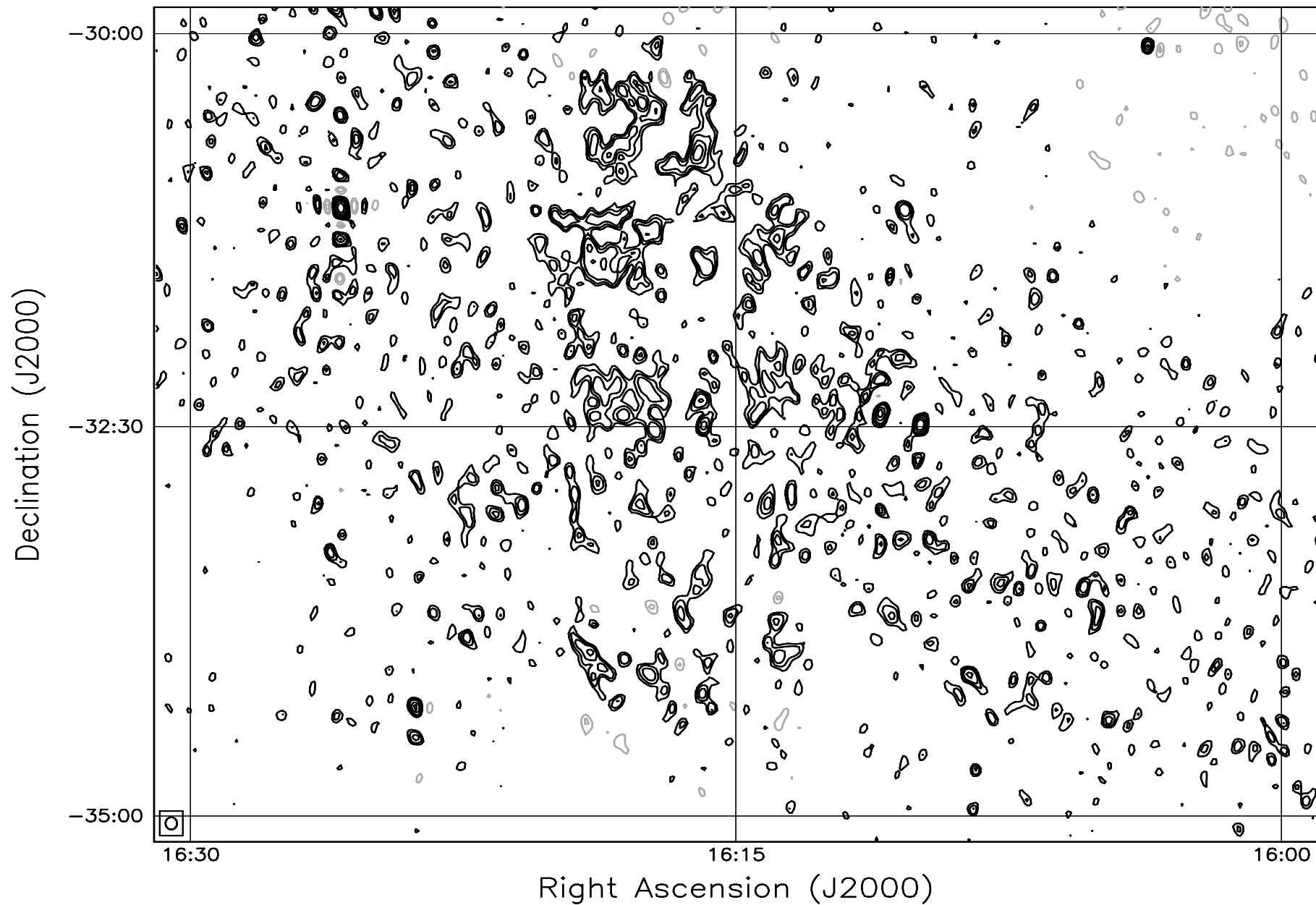


Fig. A.35: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-35^{\circ}$  to  $-30^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

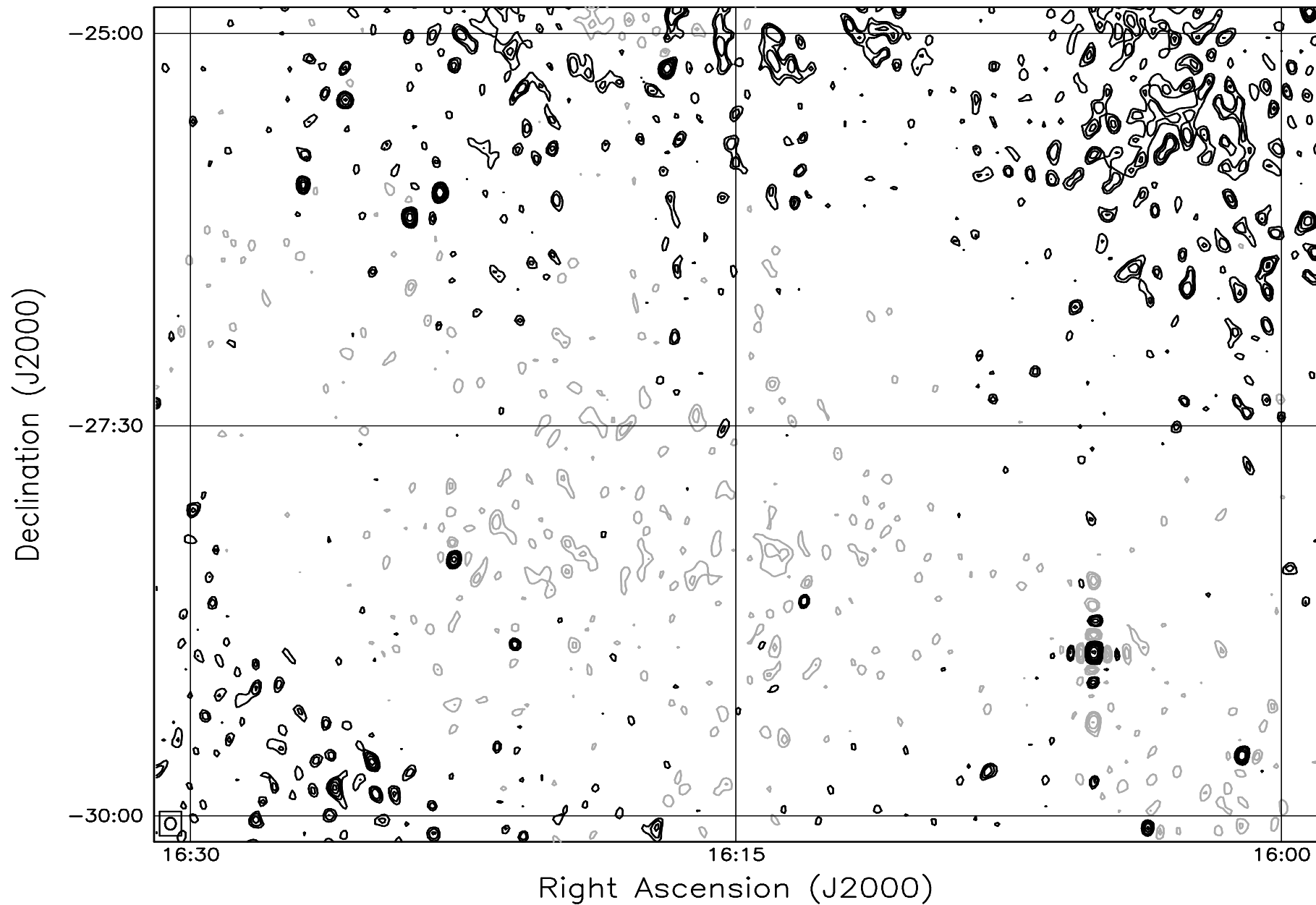


Fig. A.36: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-30^{\circ}$  to  $-25^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

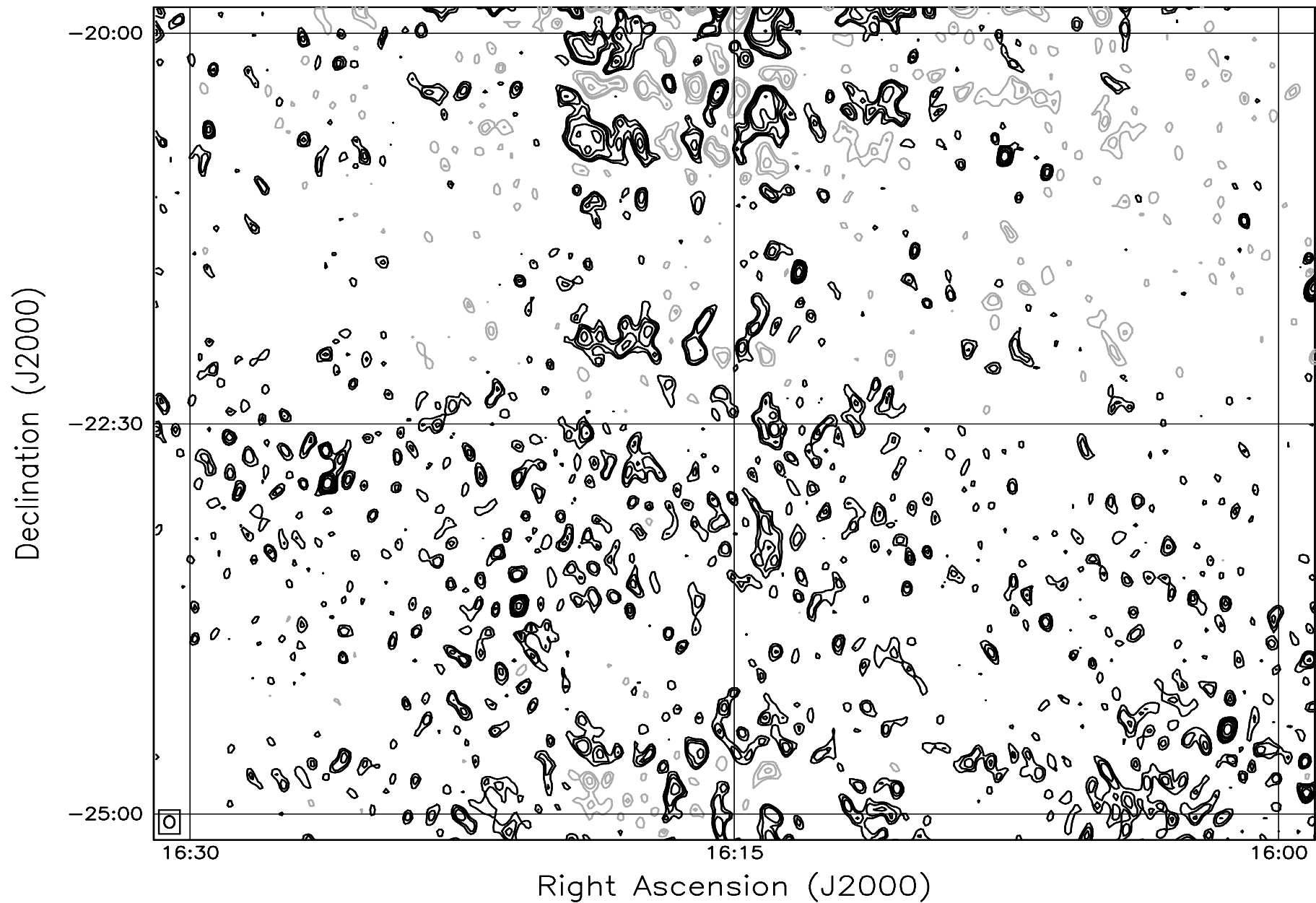


Fig. A.37: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-25^{\circ}$  to  $-20^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

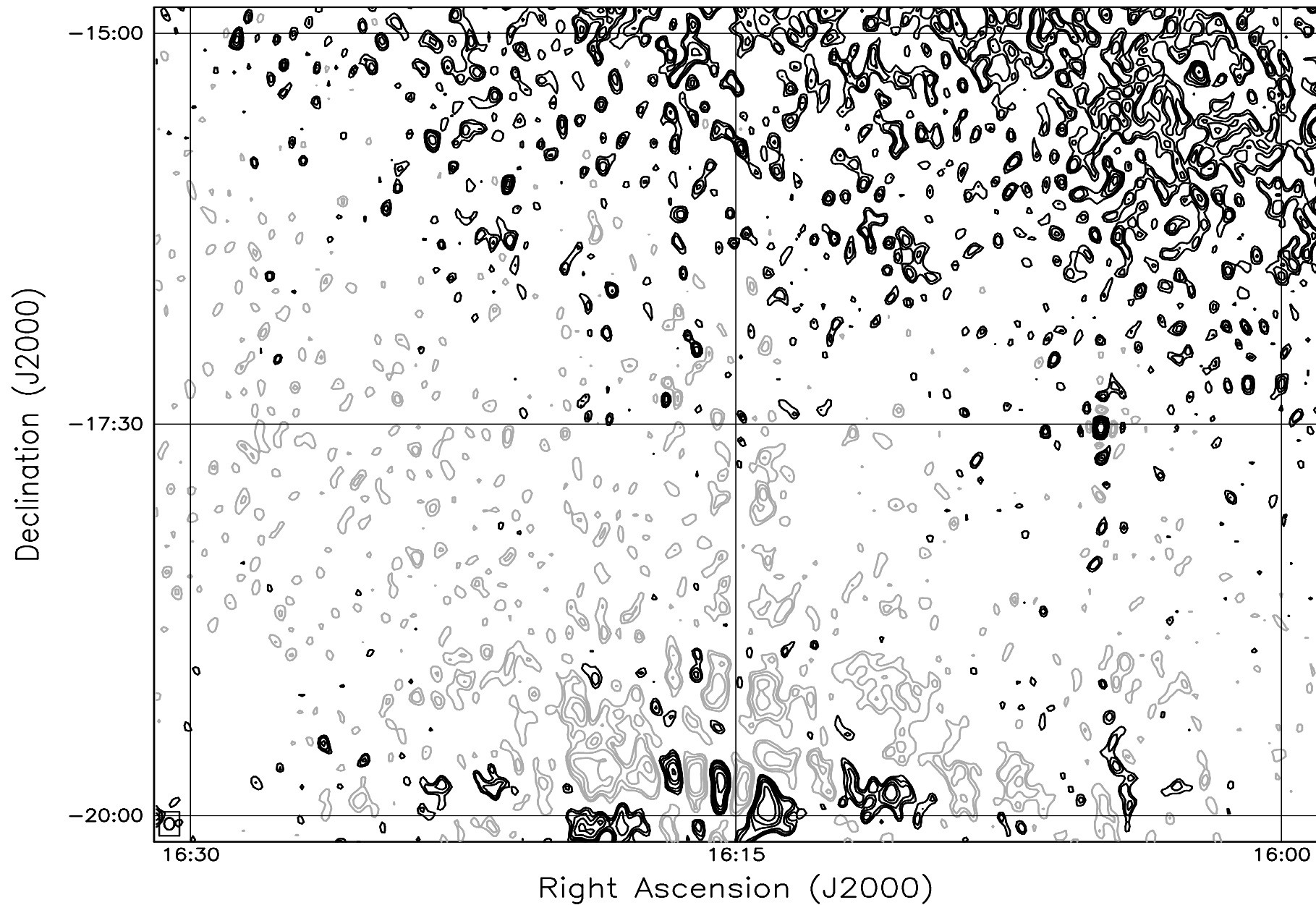


Fig. A.38: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-20^{\circ}$  to  $-15^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

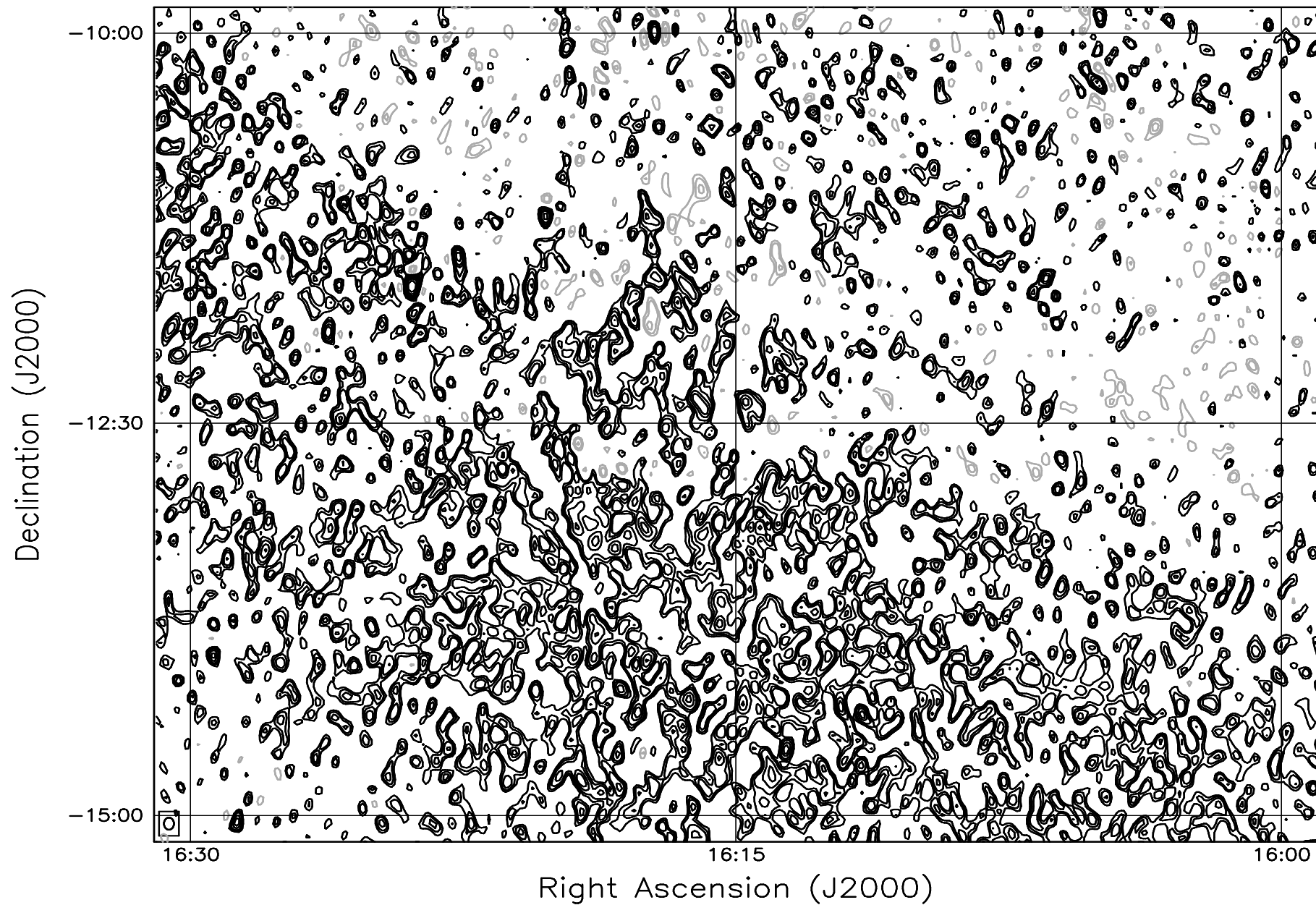


Fig. A.39: Contour map covering the right ascension range 16h00m to 16h30m and declination range  $-15^{\circ}$  to  $-10^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

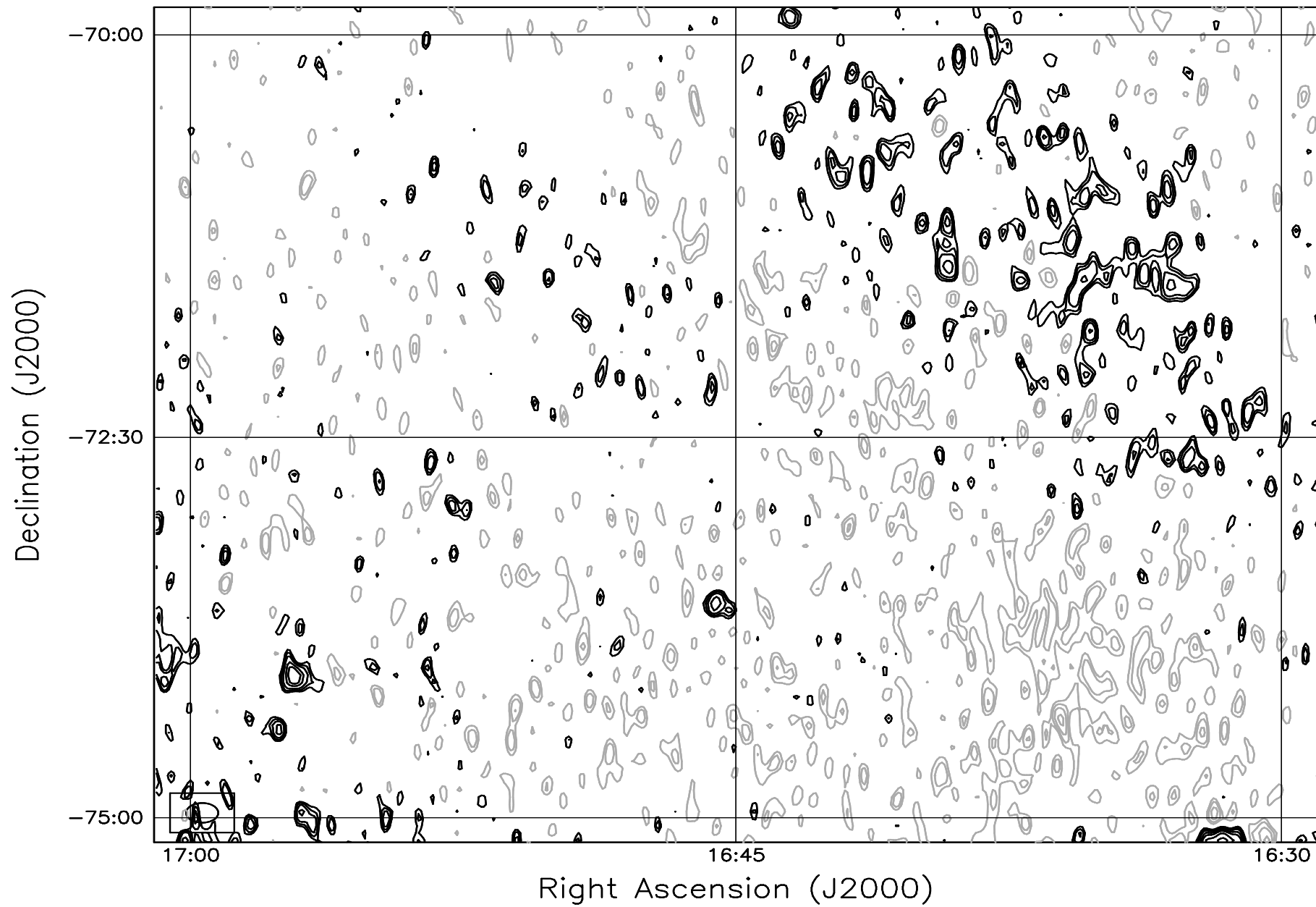


Fig. A.40: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-75^{\circ}$  to  $-70^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

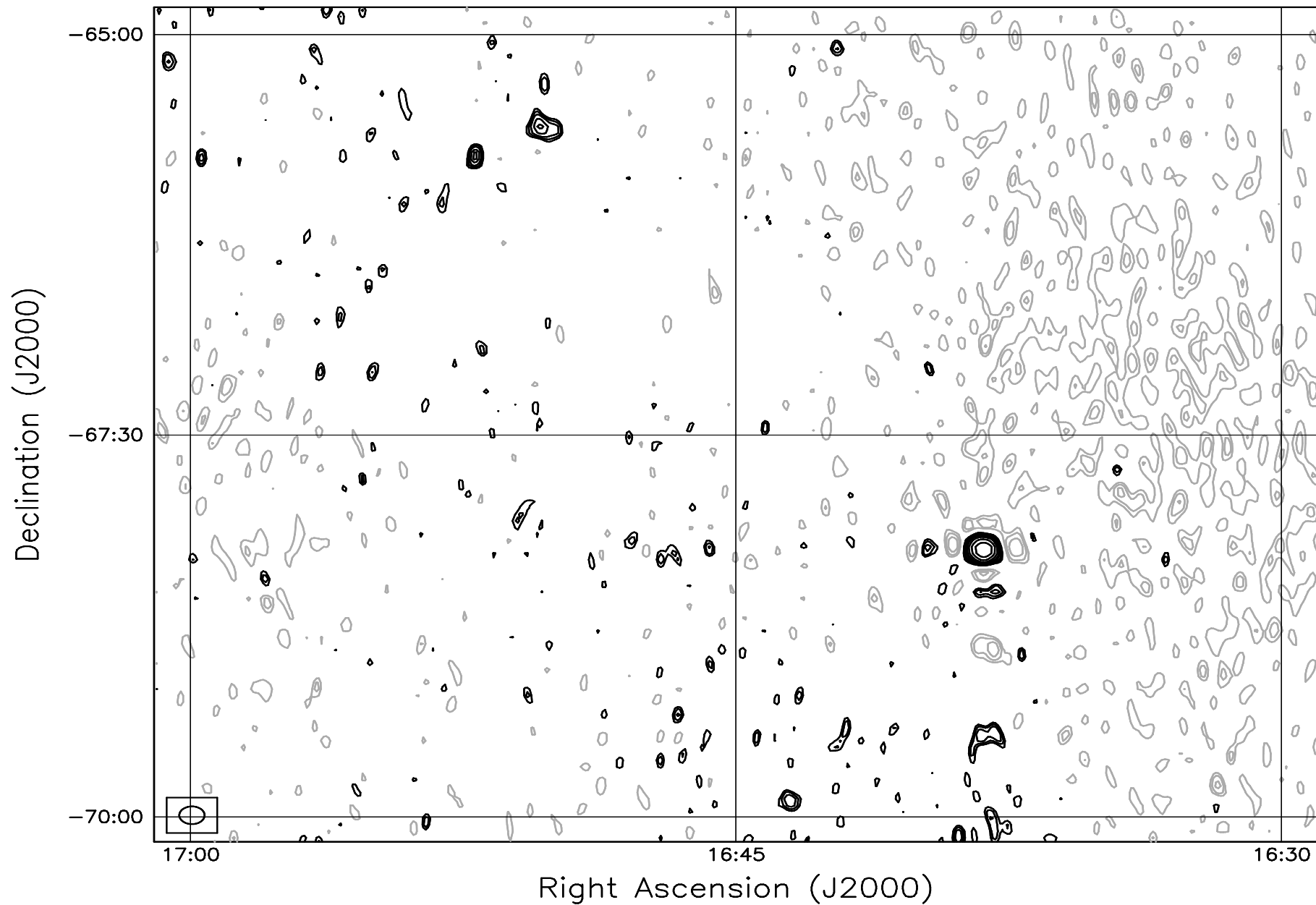


Fig. A.41: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-70^{\circ}$  to  $-65^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

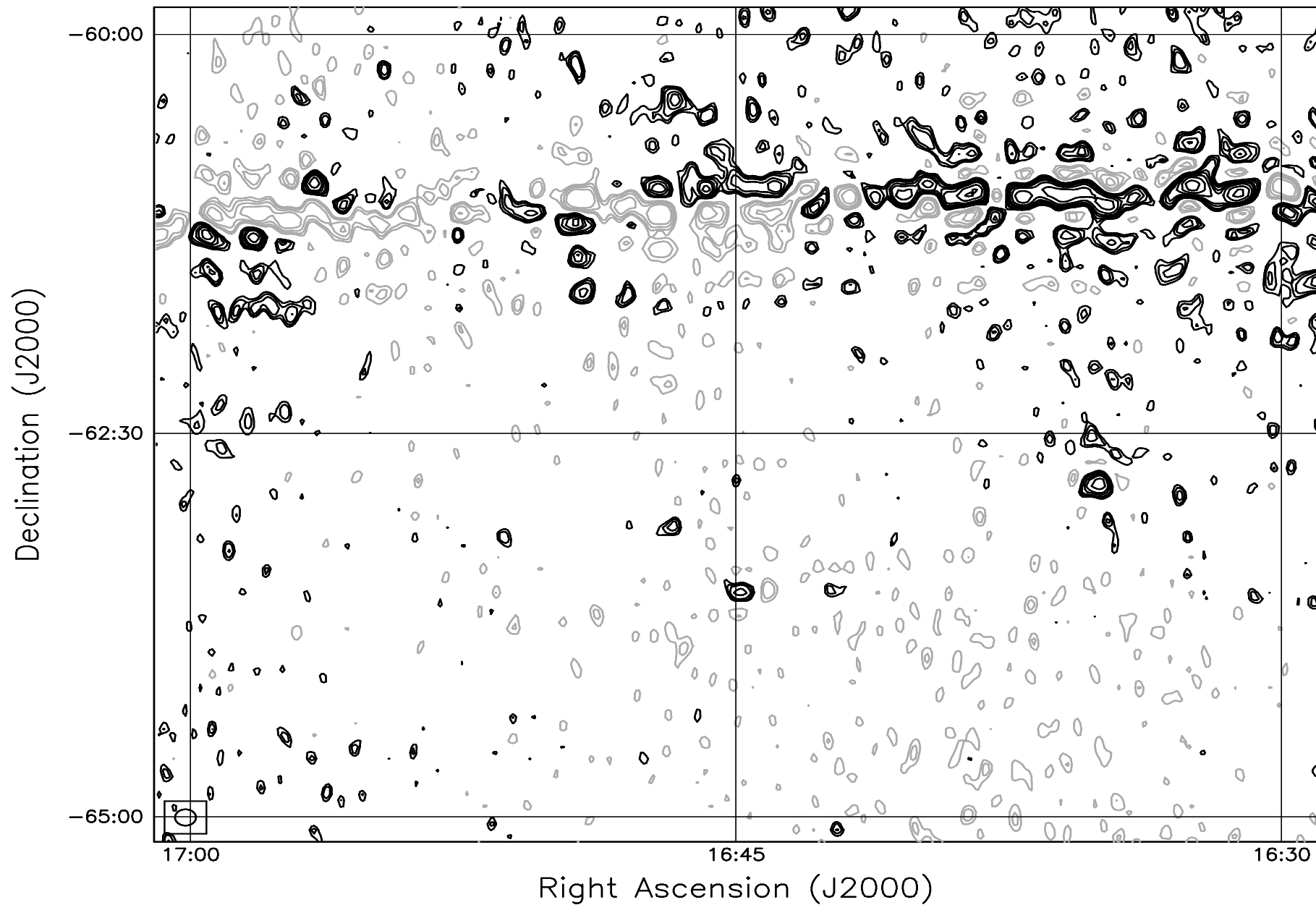


Fig. A.42: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-65^{\circ}$  to  $-60^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



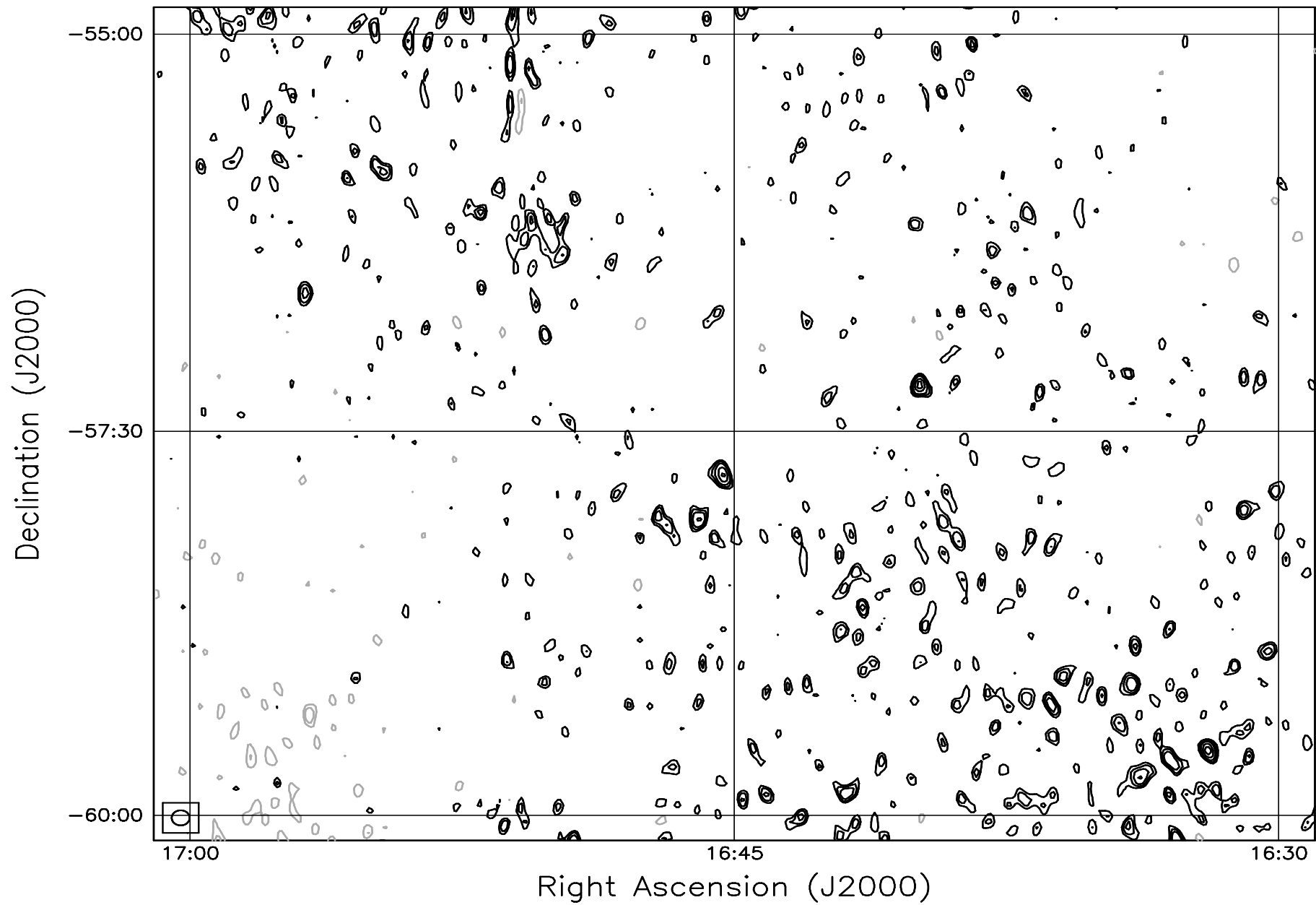


Fig. A.43: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-60^{\circ}$  to  $-55^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

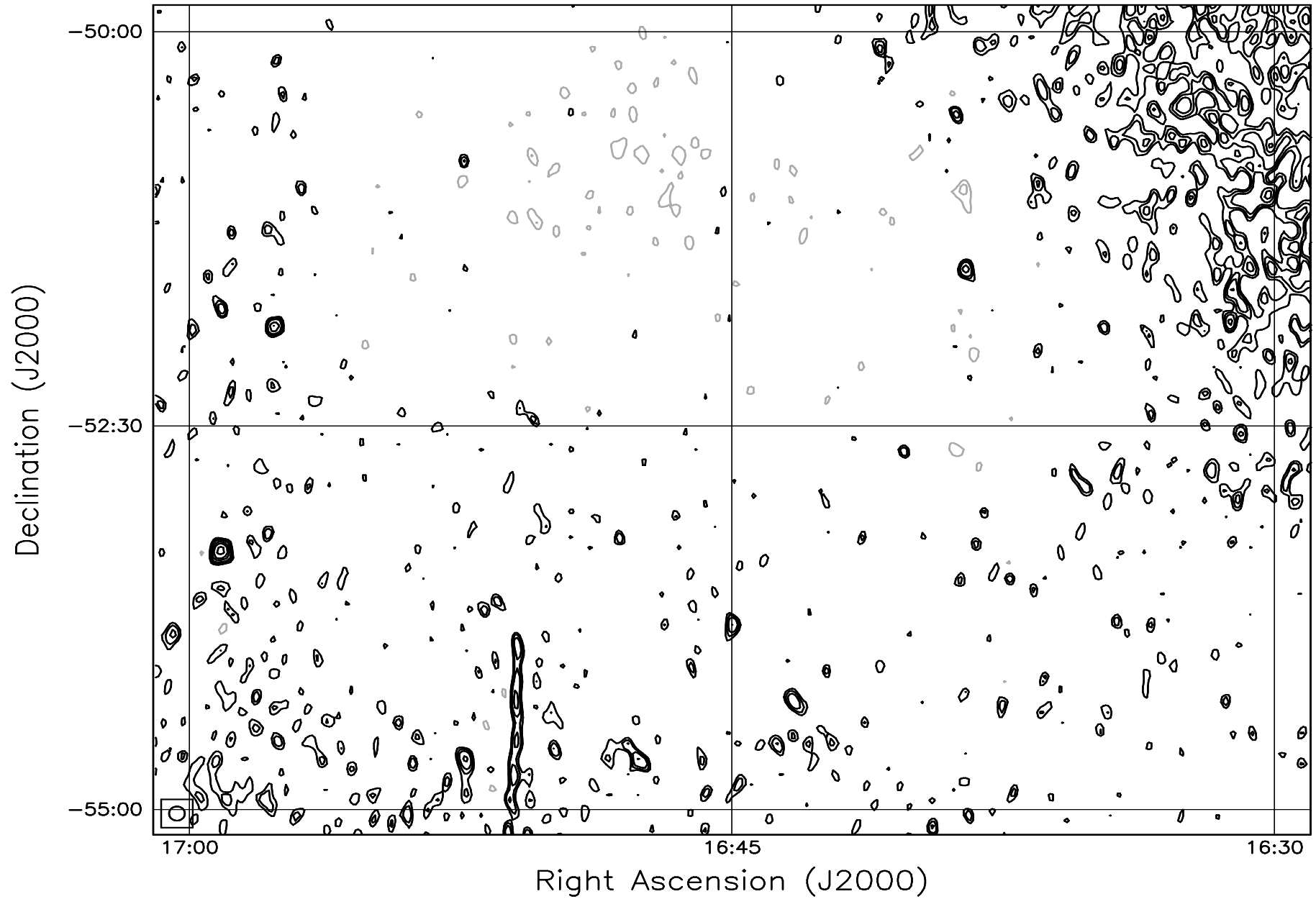


Fig. A.44: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-55^{\circ}$  to  $-50^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

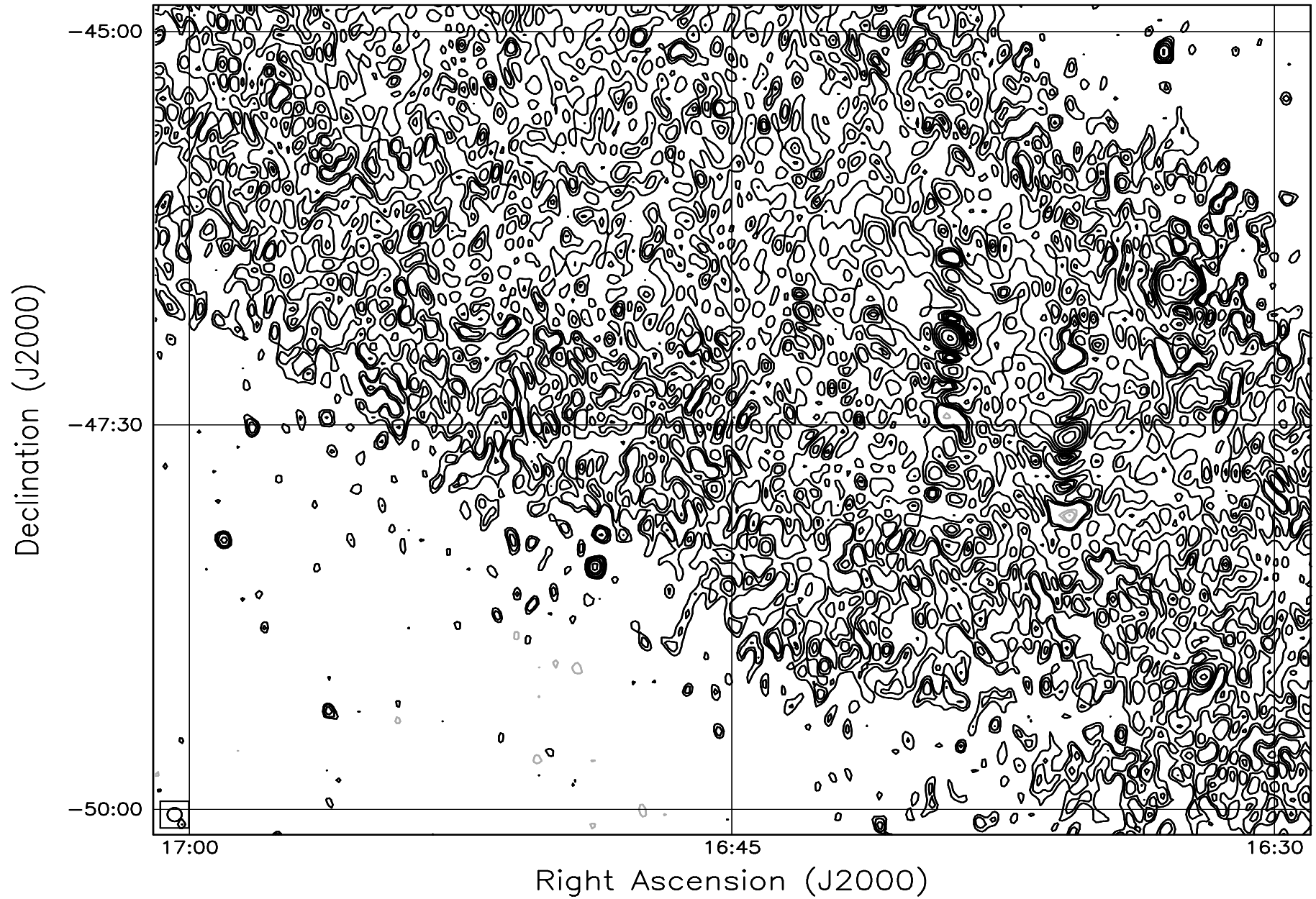


Fig. A.45: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-50^{\circ}$  to  $-45^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

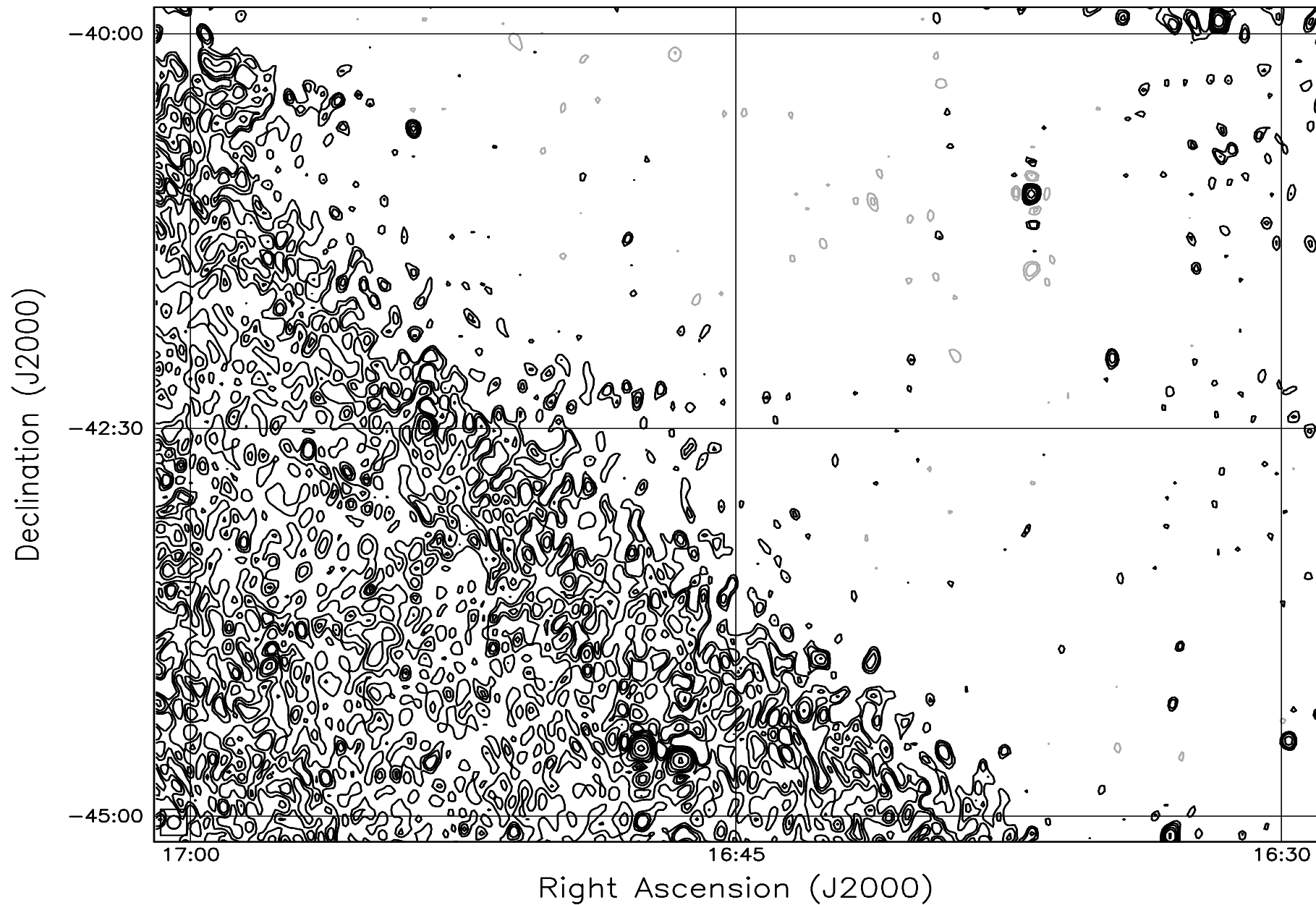


Fig. A.46: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-45^\circ$  to  $-40^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

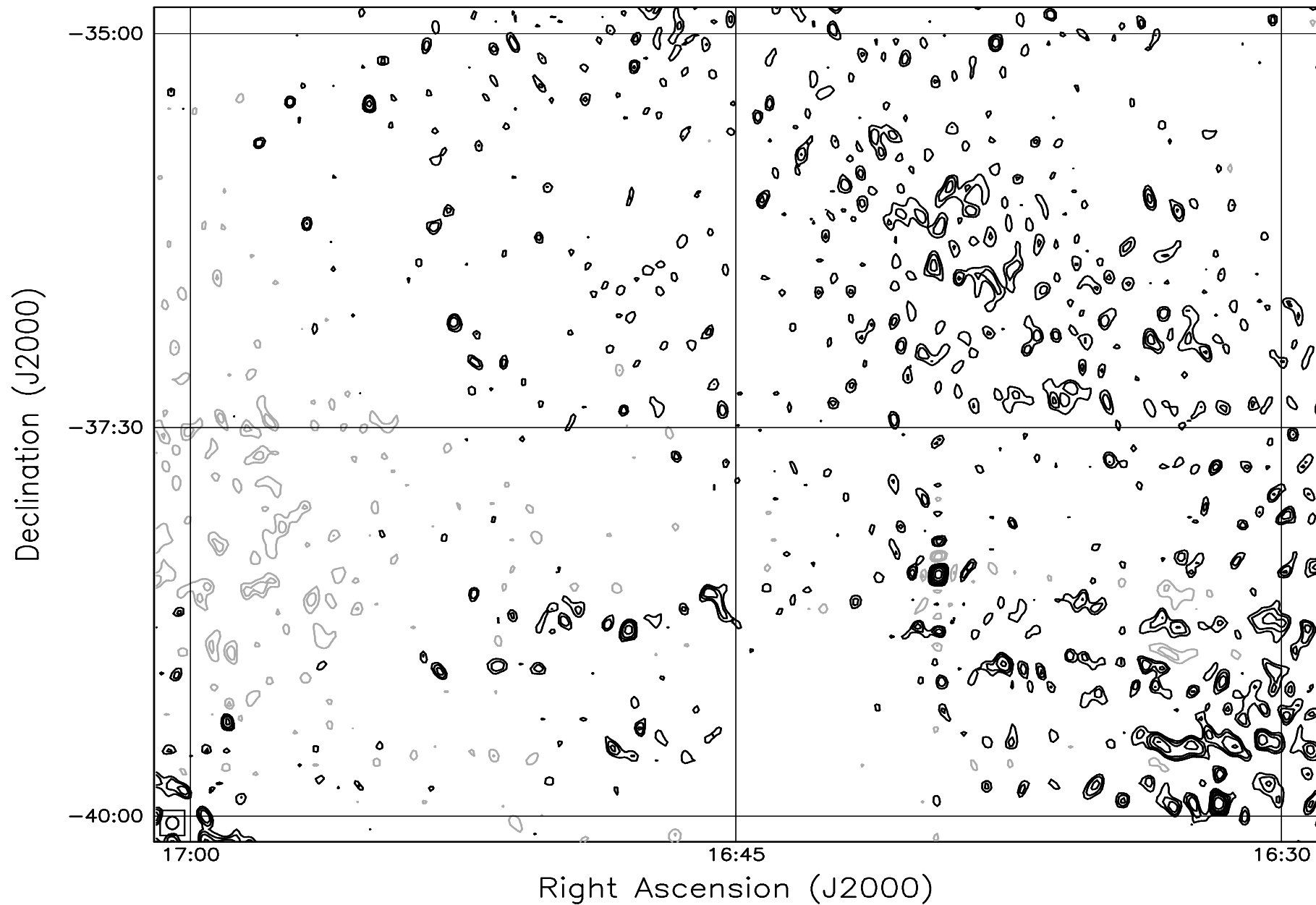


Fig. A.47: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-40^{\circ}$  to  $-35^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

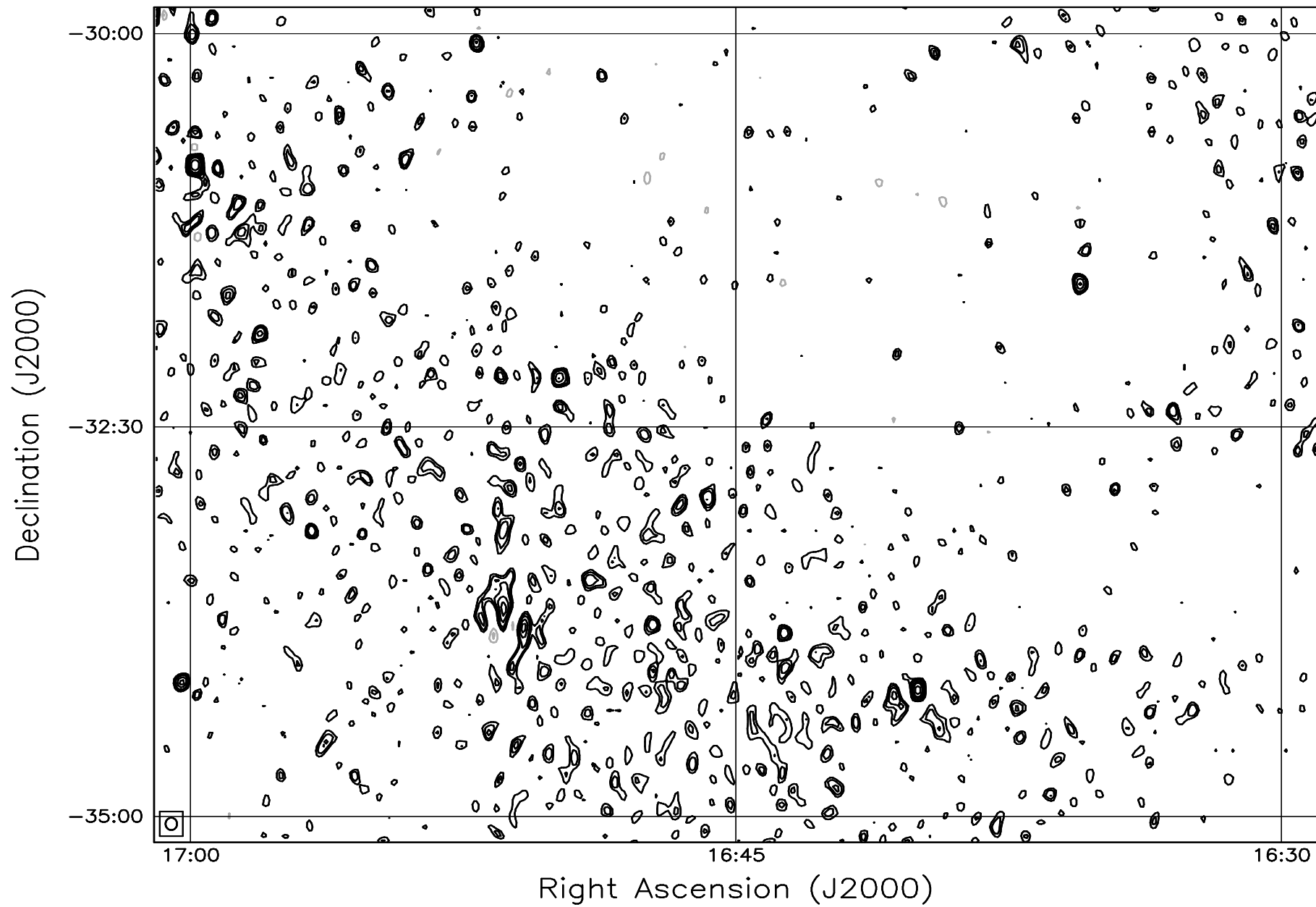


Fig. A.48: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-35^{\circ}$  to  $-30^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

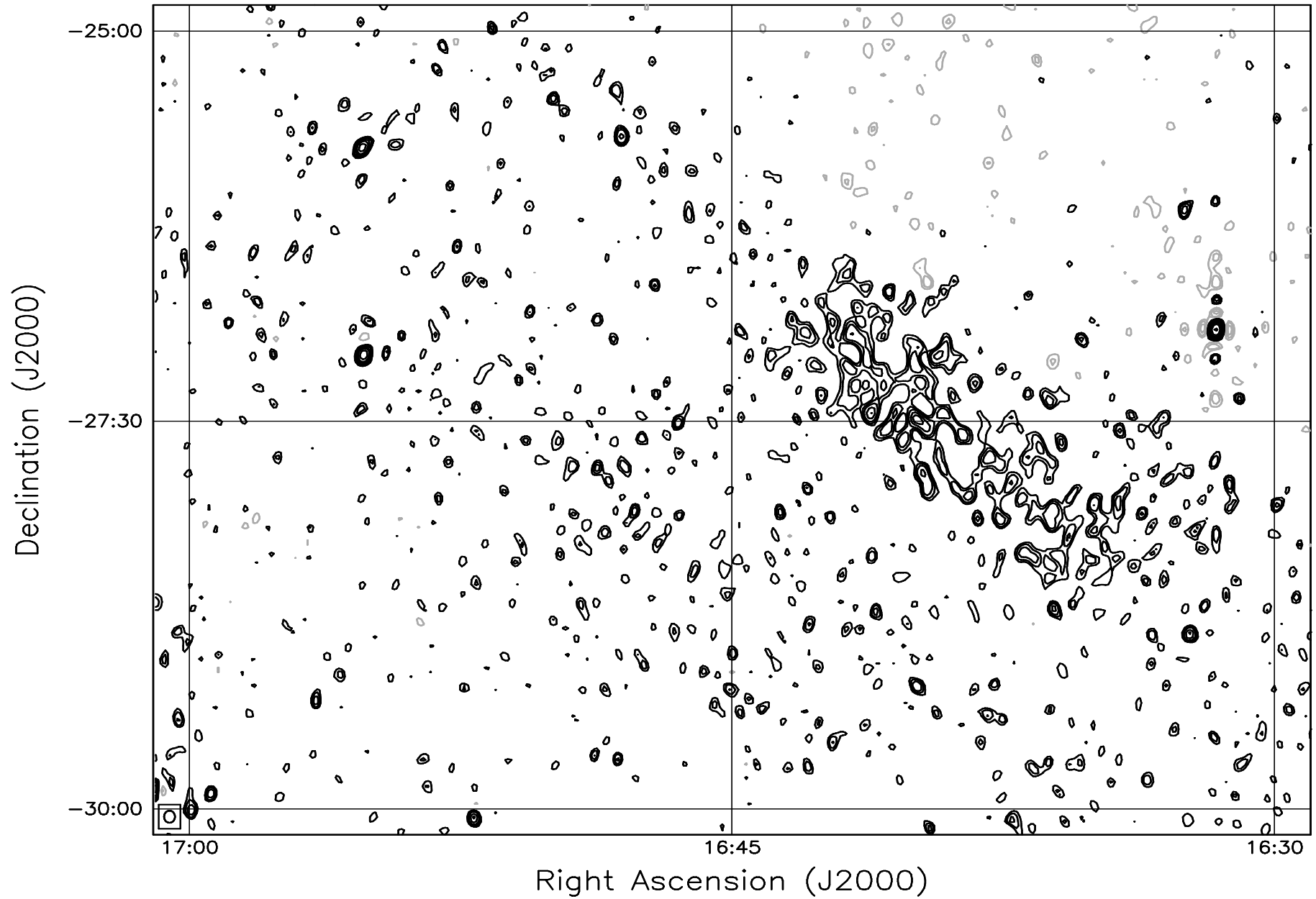


Fig. A.49: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-30^{\circ}$  to  $-25^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

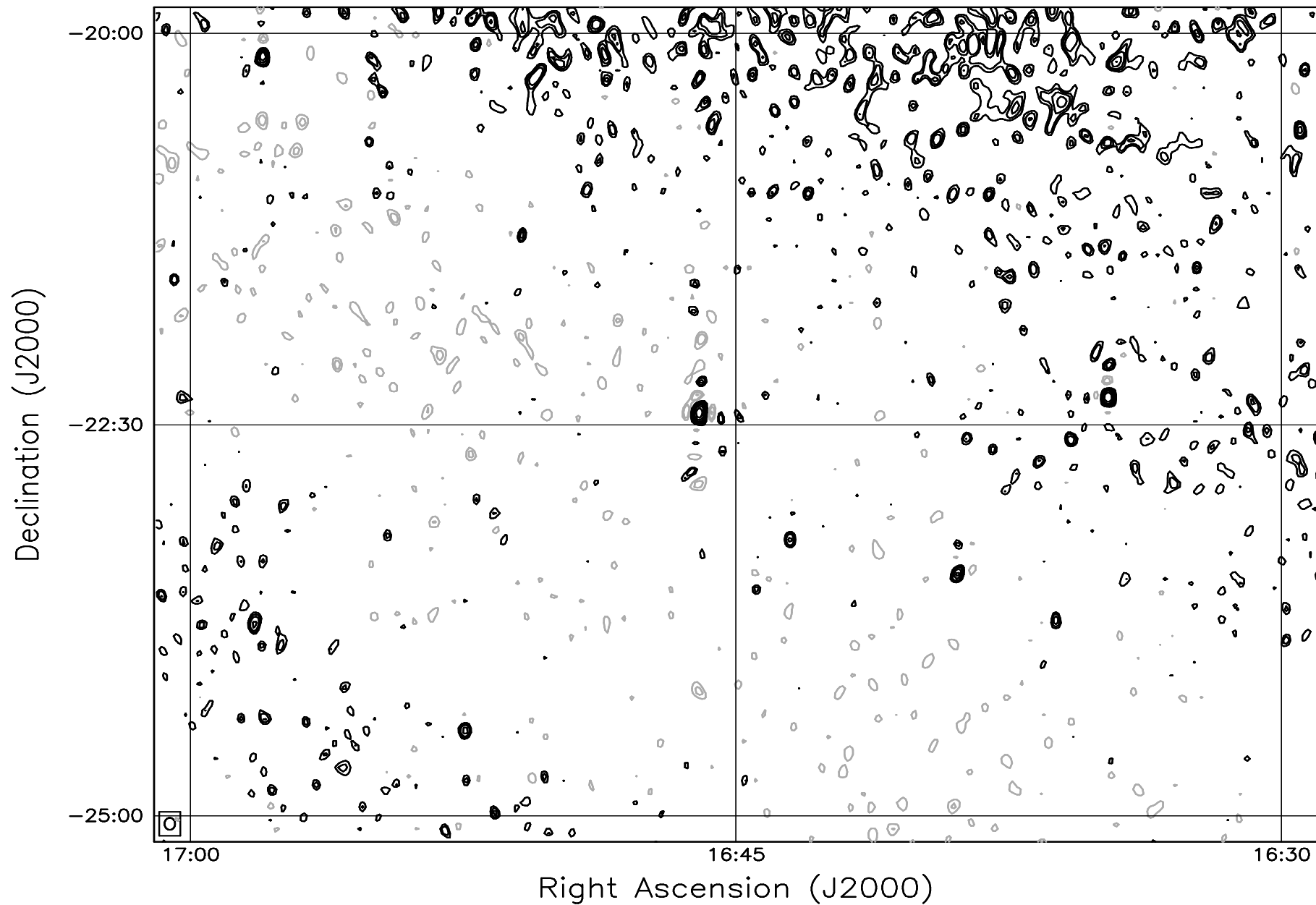


Fig. A.50: Contour map covering the right ascension range 16h30m to 17h00m and declination range -25° to -20°. The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.



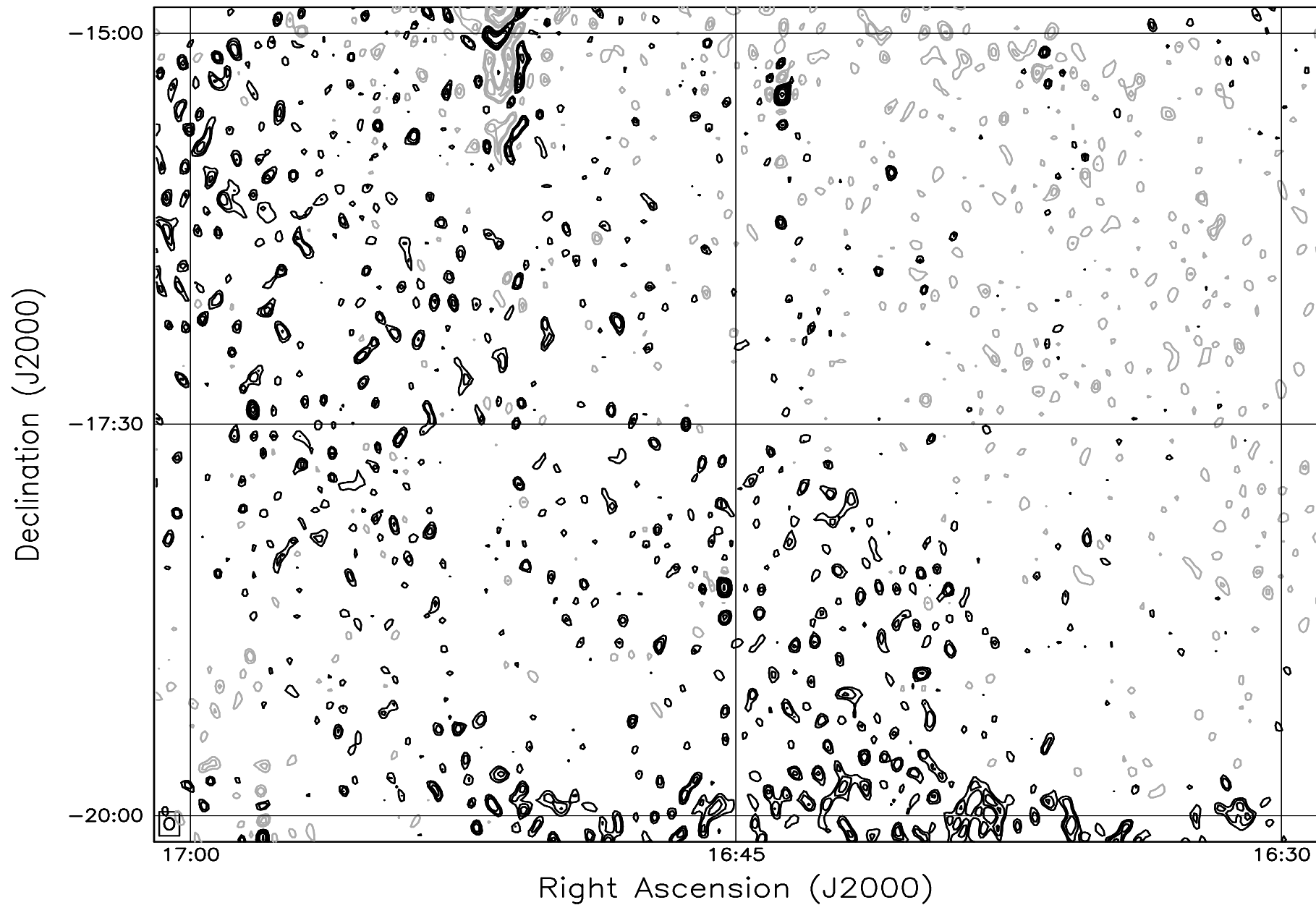


Fig. A.51: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-20^{\circ}$  to  $-15^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

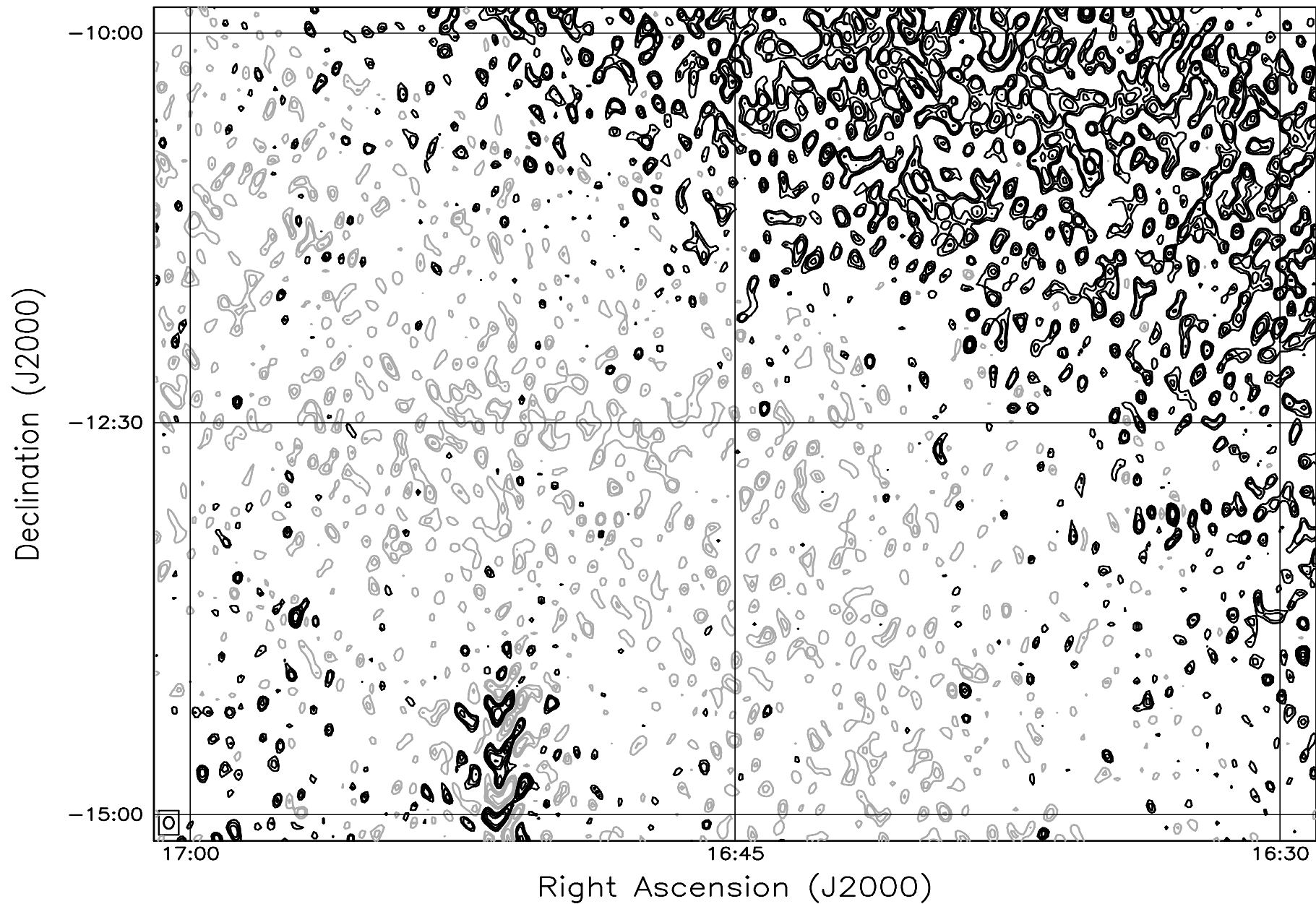


Fig. A.52: Contour map covering the right ascension range 16h30m to 17h00m and declination range  $-15^{\circ}$  to  $-10^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

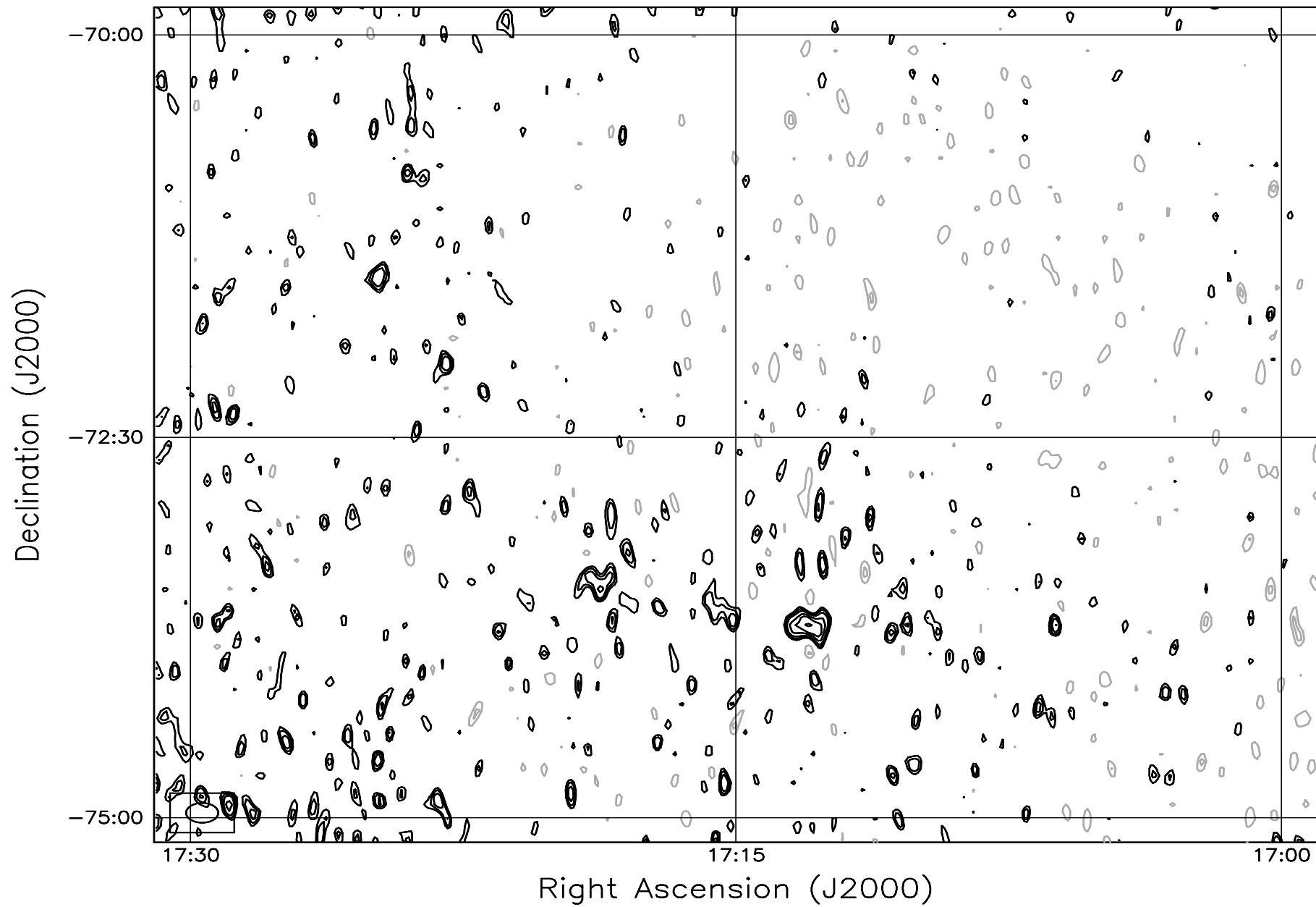


Fig. A.53: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-75^{\circ}$  to  $-70^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

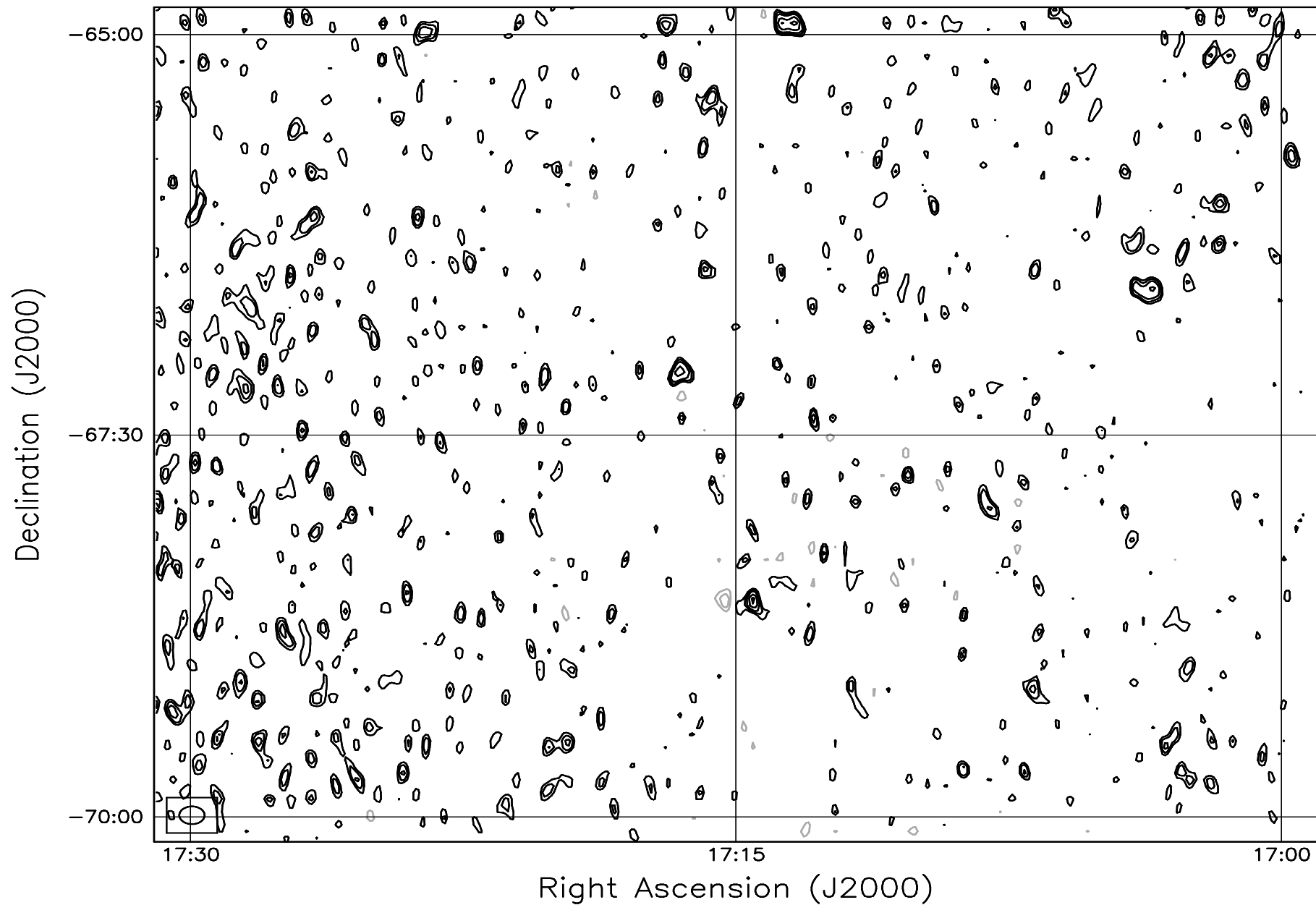


Fig. A.54: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-70^{\circ}$  to  $-65^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

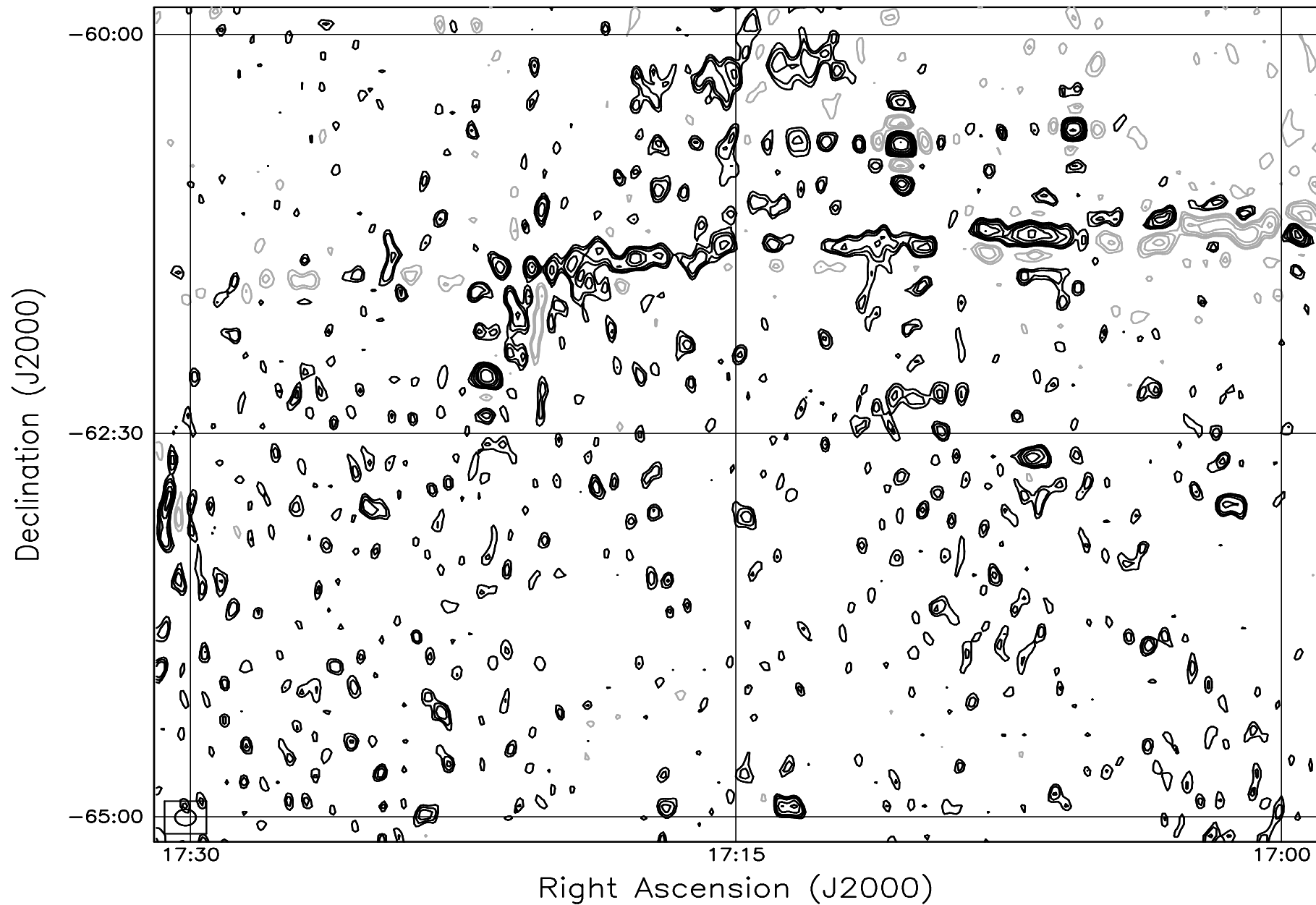


Fig. A.55: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-65^{\circ}$  to  $-60^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

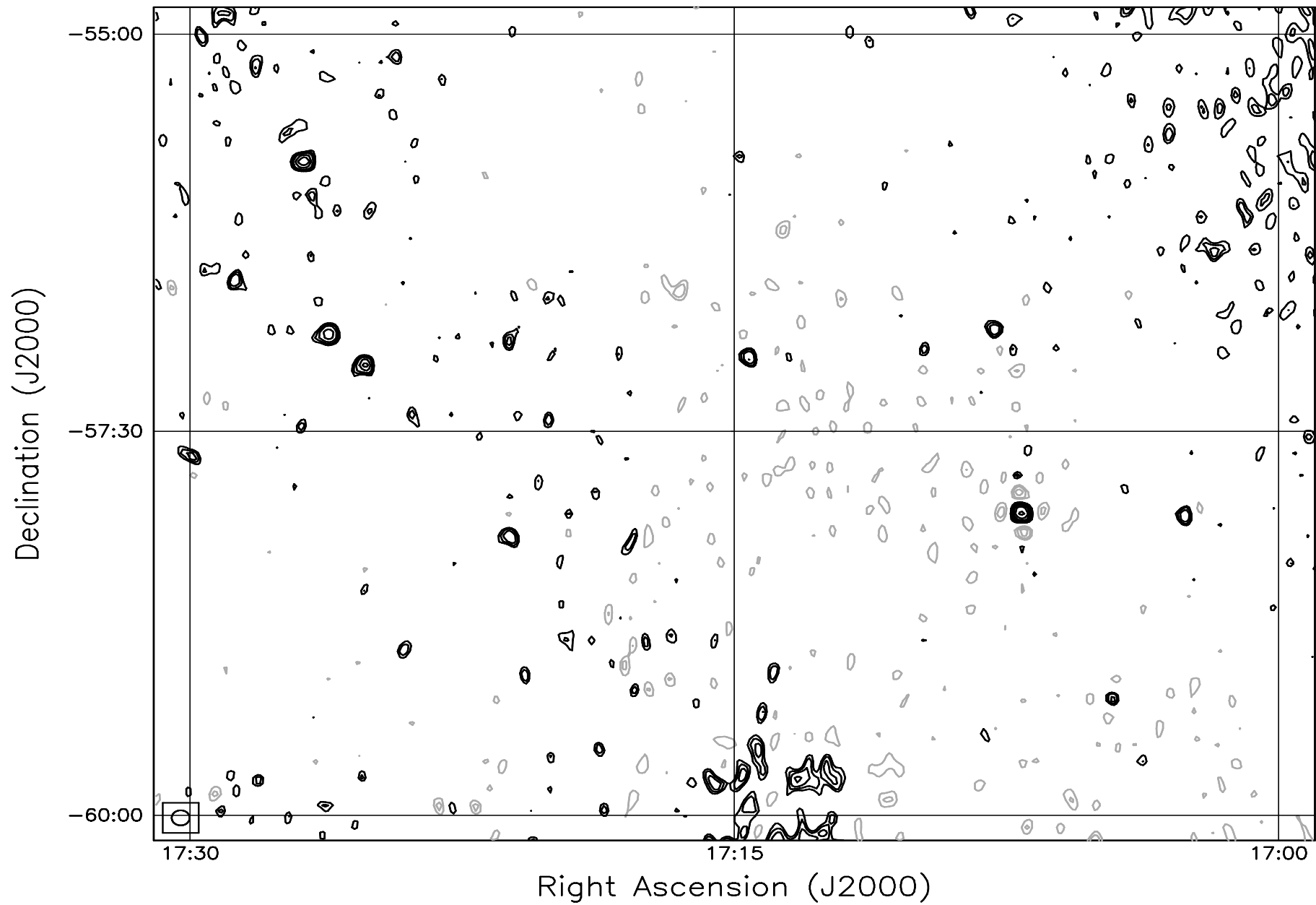


Fig. A.56: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-60^\circ$  to  $-55^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

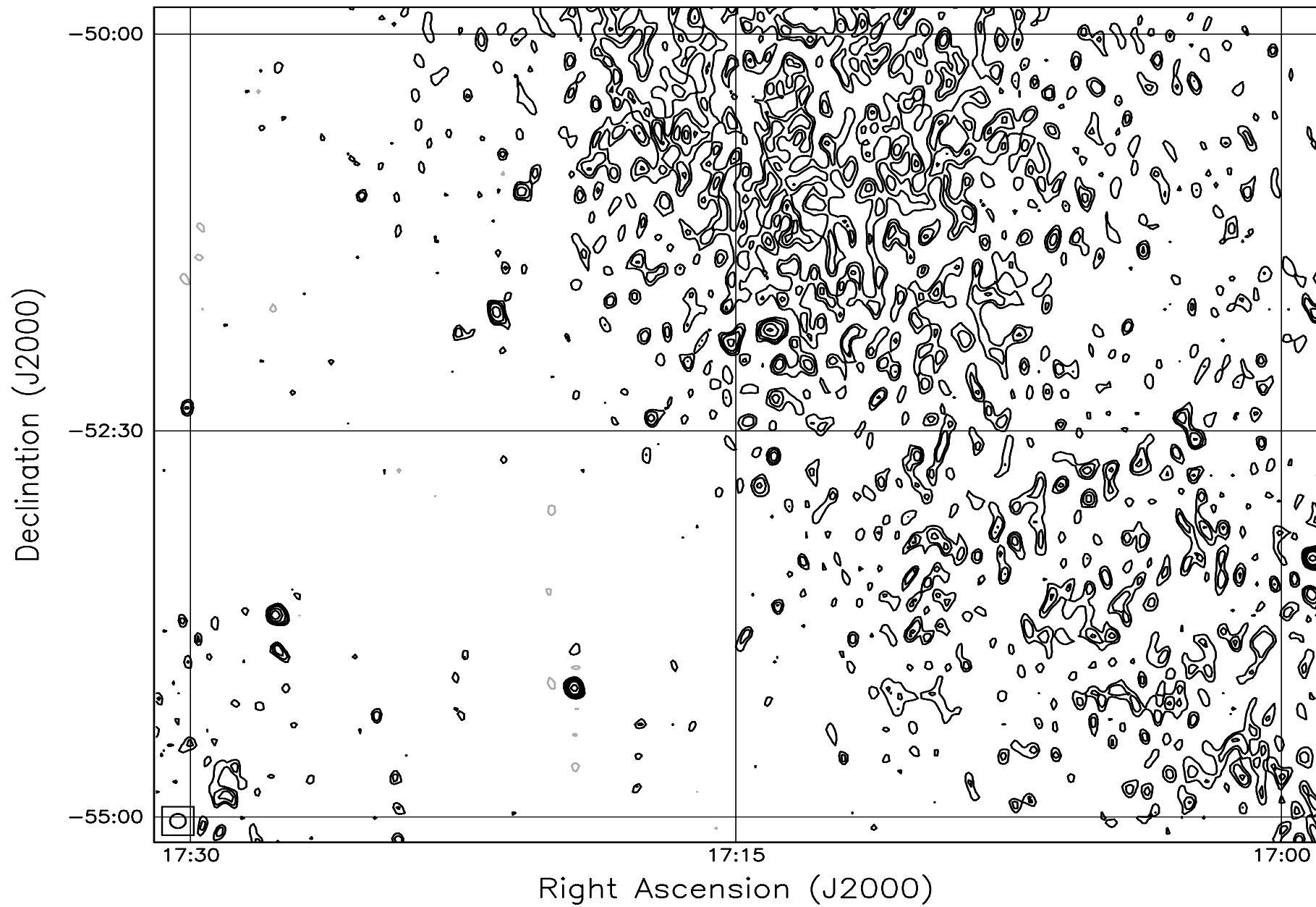


Fig. A.57: Contour map covering the right ascension range 17h00m to 17h30m and declination range -55° to -50°. The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.

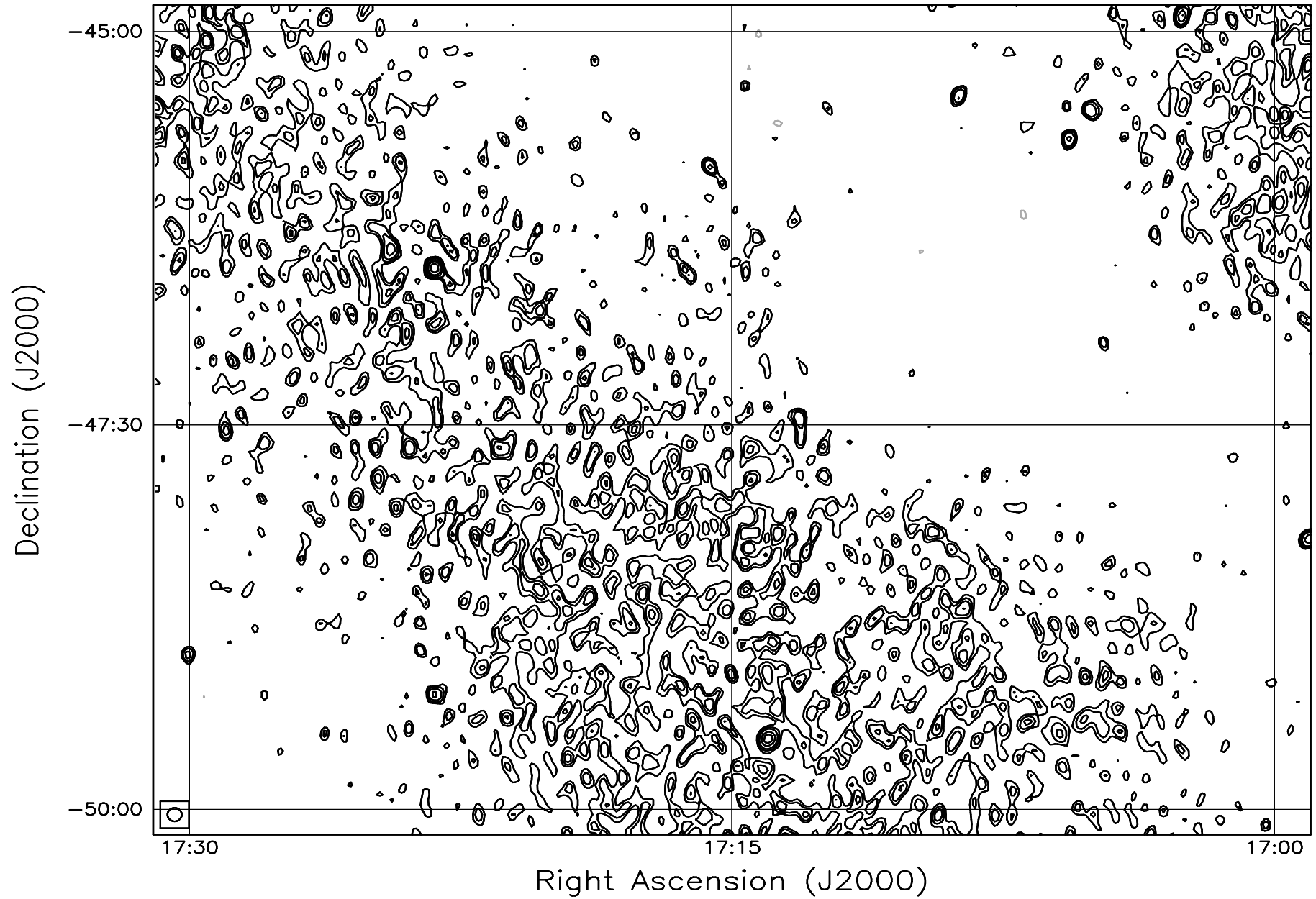


Fig. A.58: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-50^{\circ}$  to  $-45^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



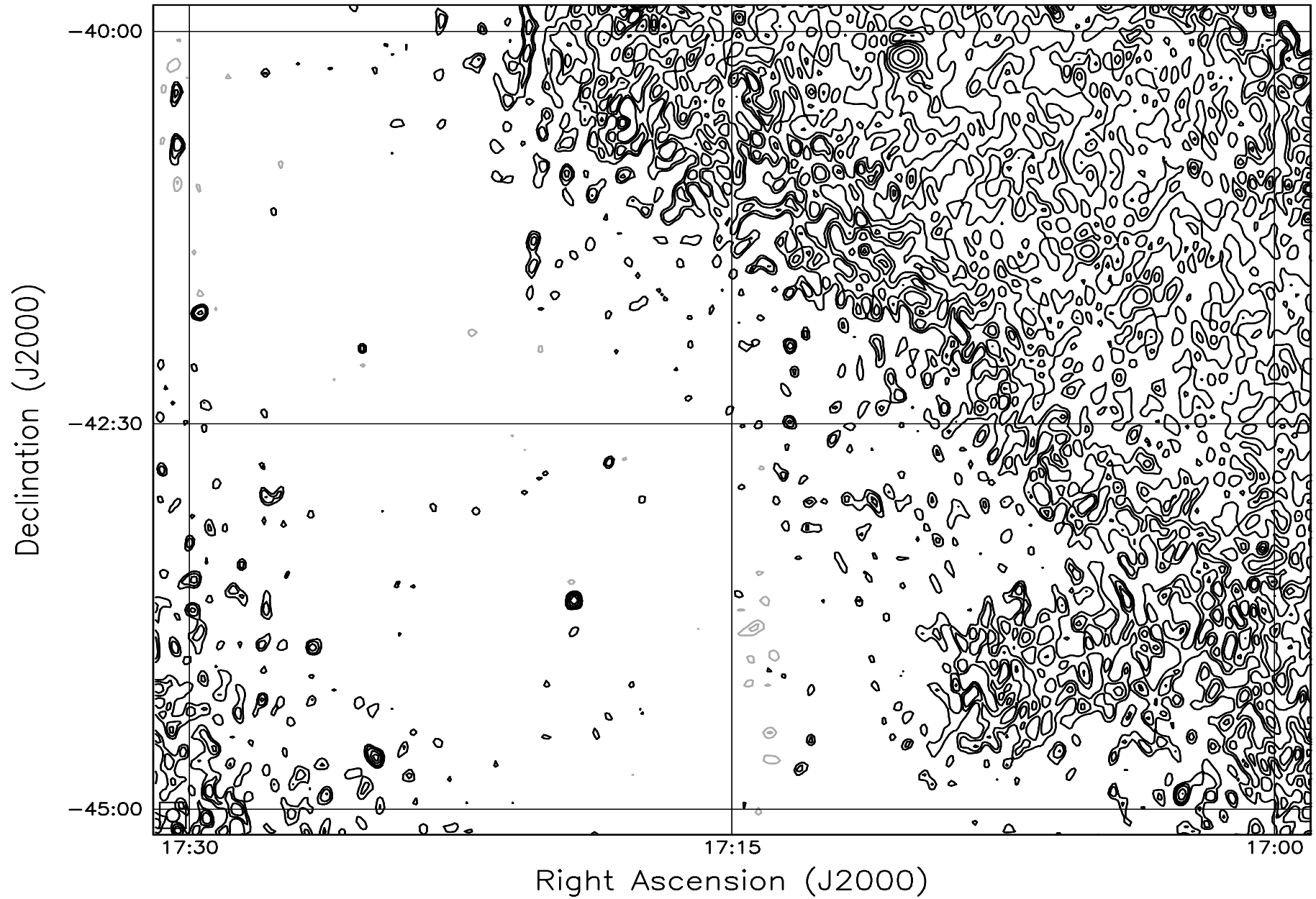


Fig. A.59: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-45^{\circ}$  to  $-40^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

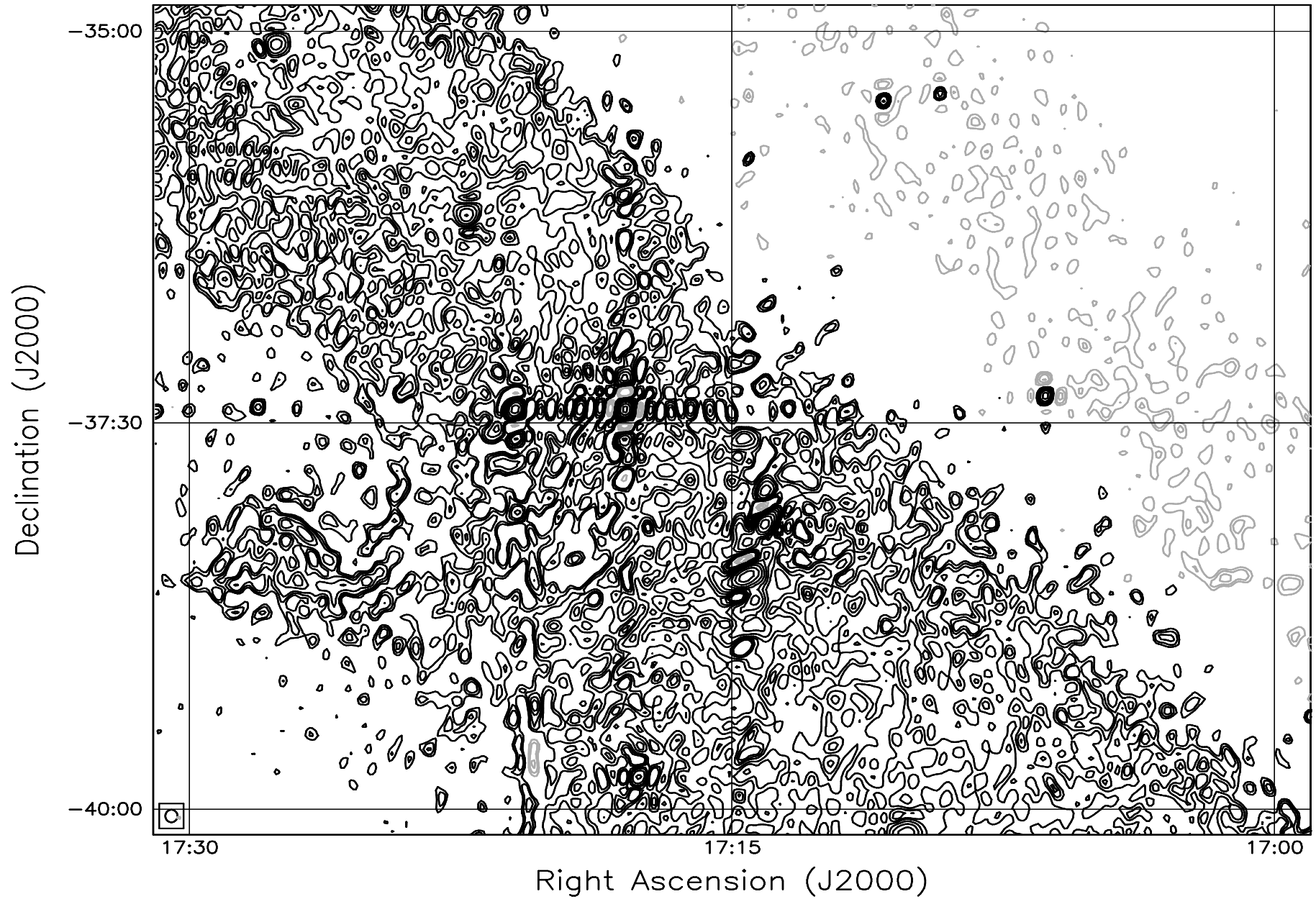


Fig. A.60: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-40^{\circ}$  to  $-35^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

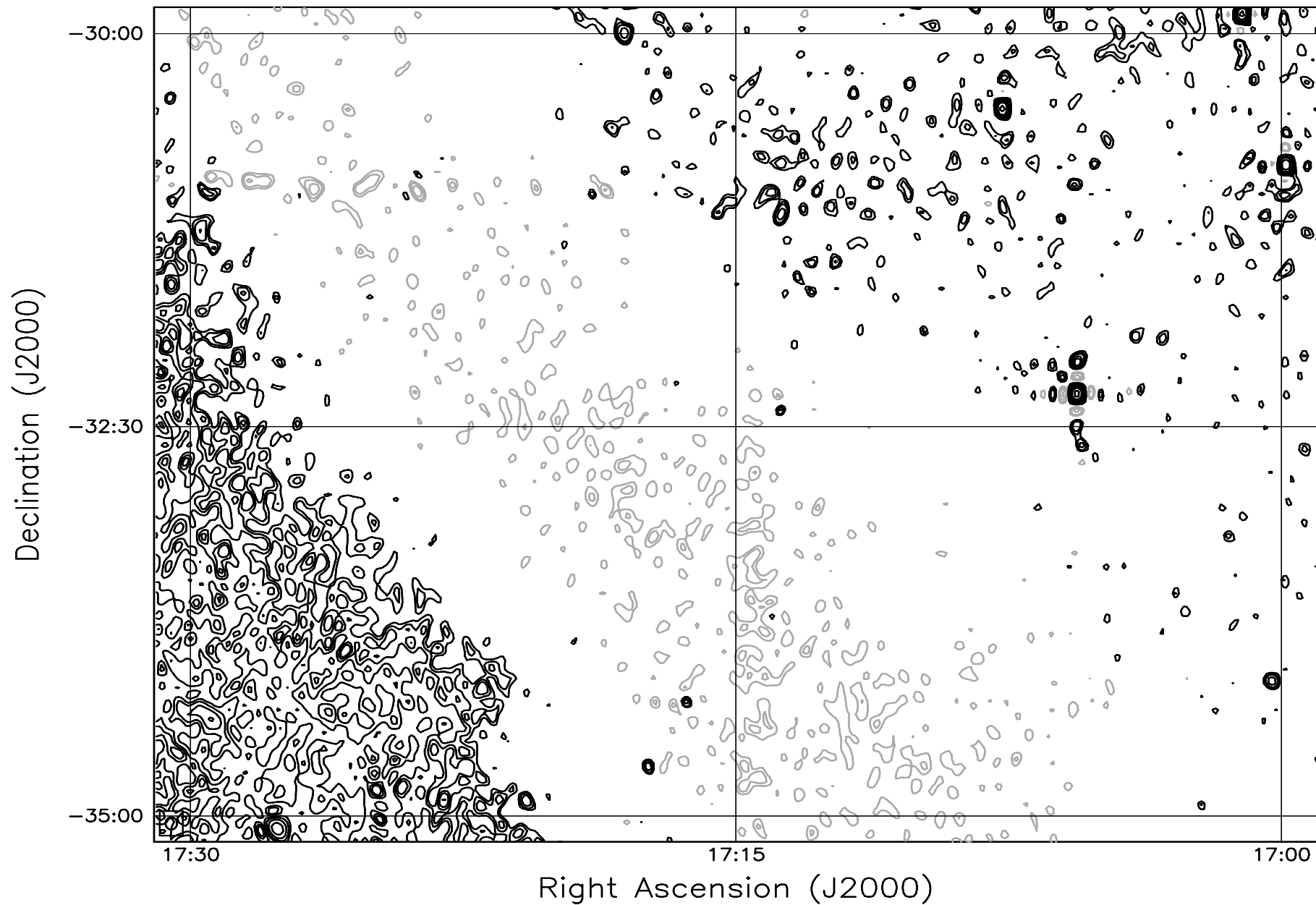


Fig. A.61: Contour map covering the right ascension range 17h00m to 17h30m and declination range -35° to -30°. The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

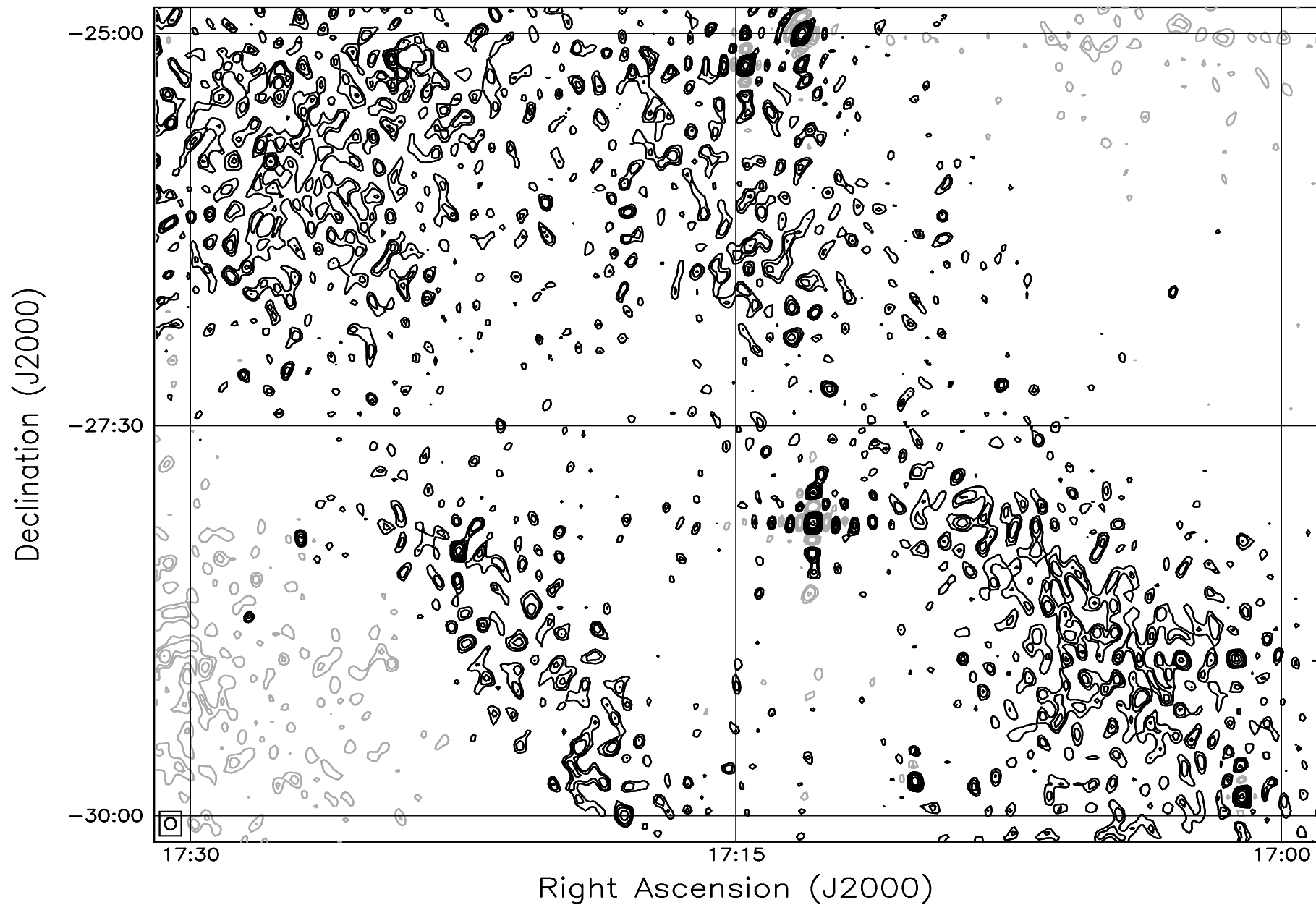


Fig. A.62: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-30^{\circ}$  to  $-25^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

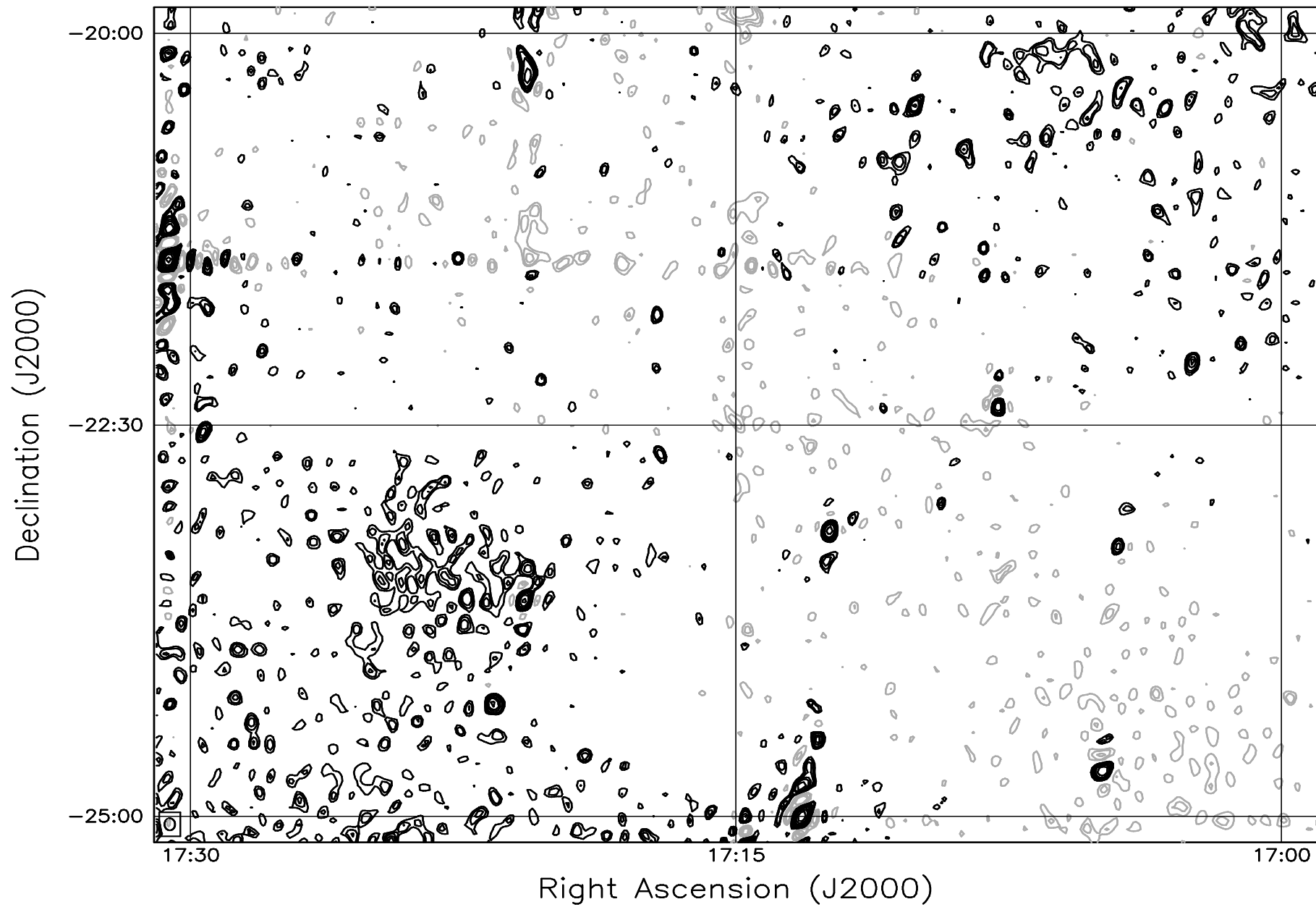


Fig. A.63: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-25^{\circ}$  to  $-20^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

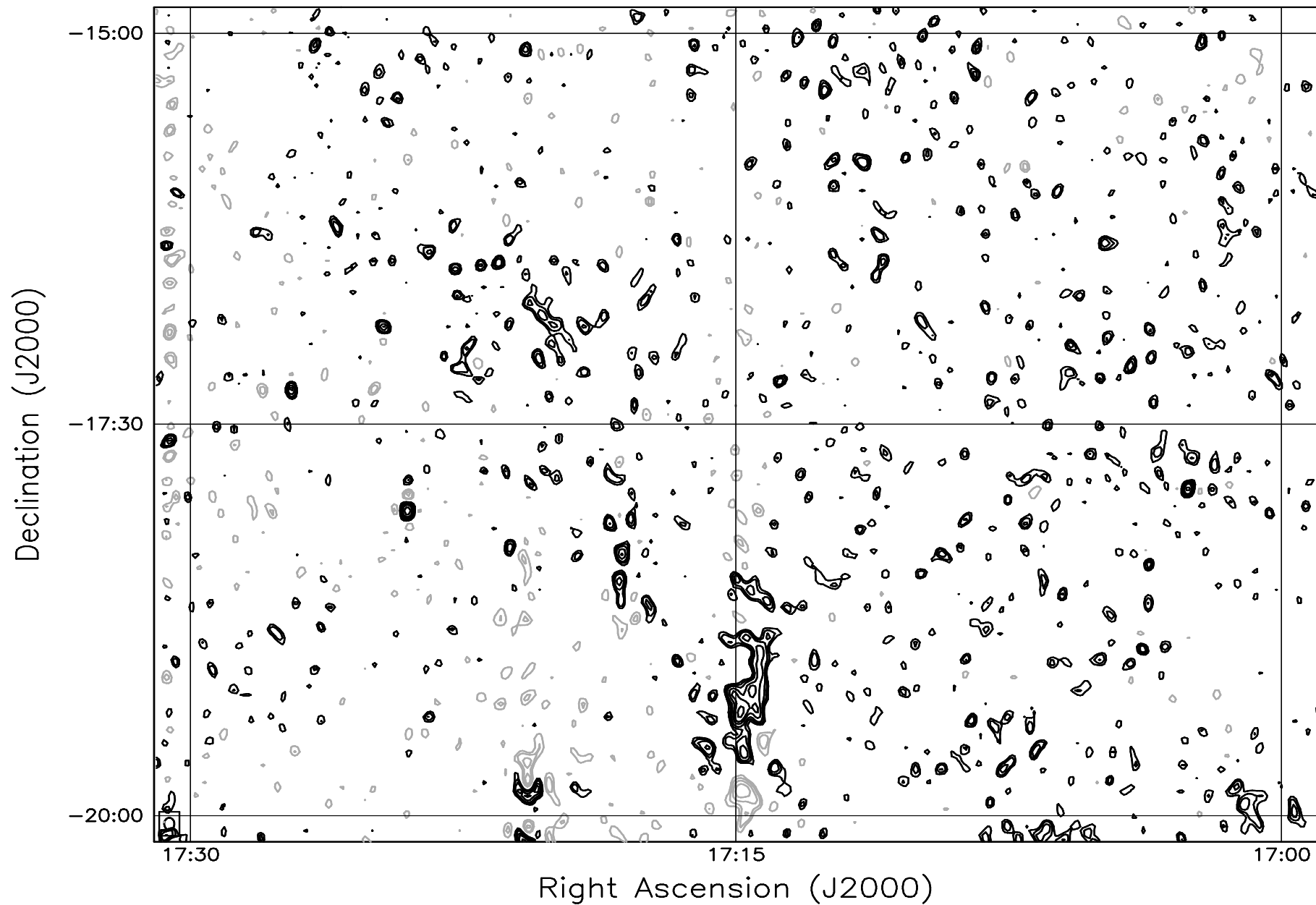


Fig. A.64: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-20^{\circ}$  to  $-15^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

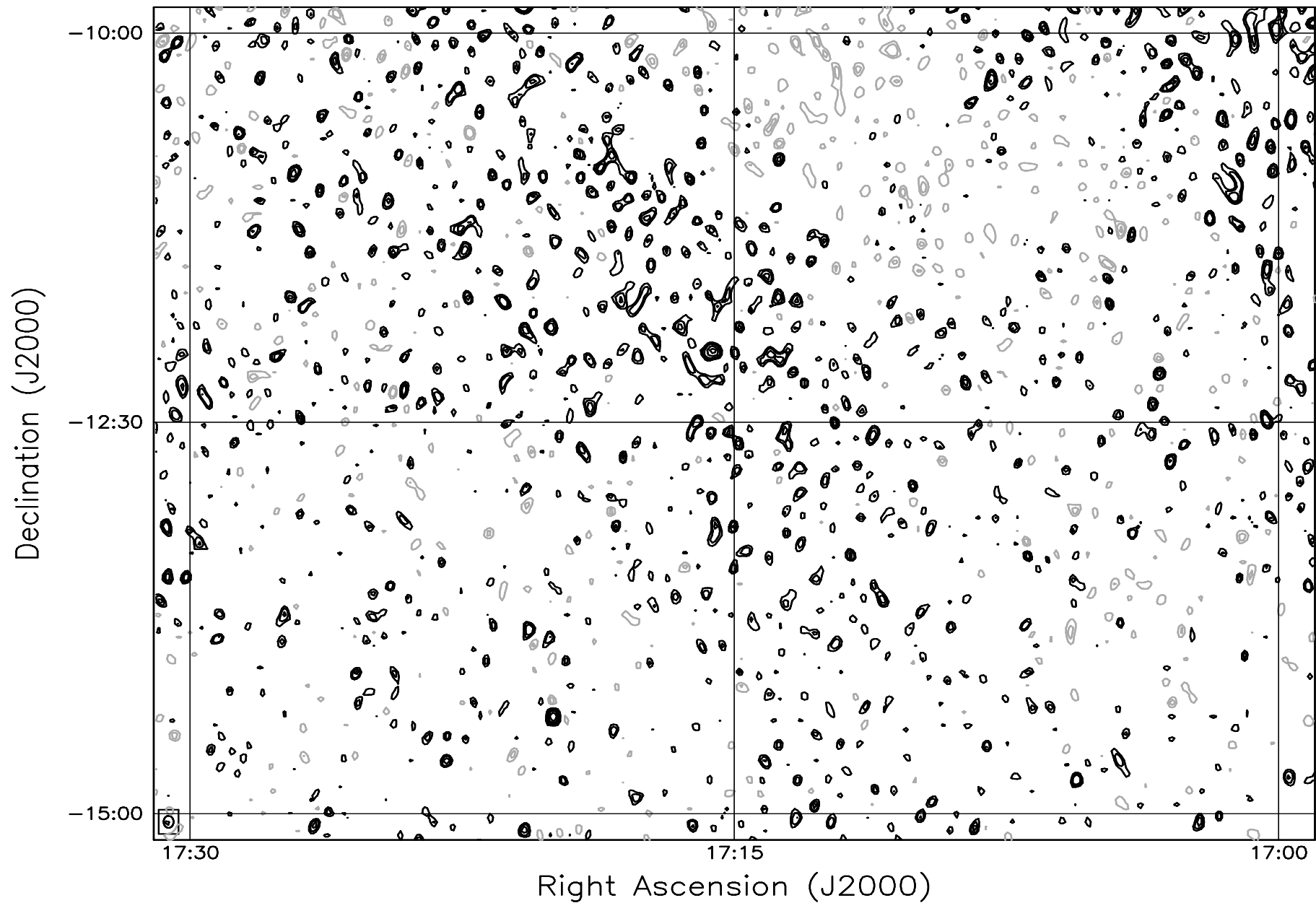


Fig. A.65: Contour map covering the right ascension range 17h00m to 17h30m and declination range  $-15^{\circ}$  to  $-10^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

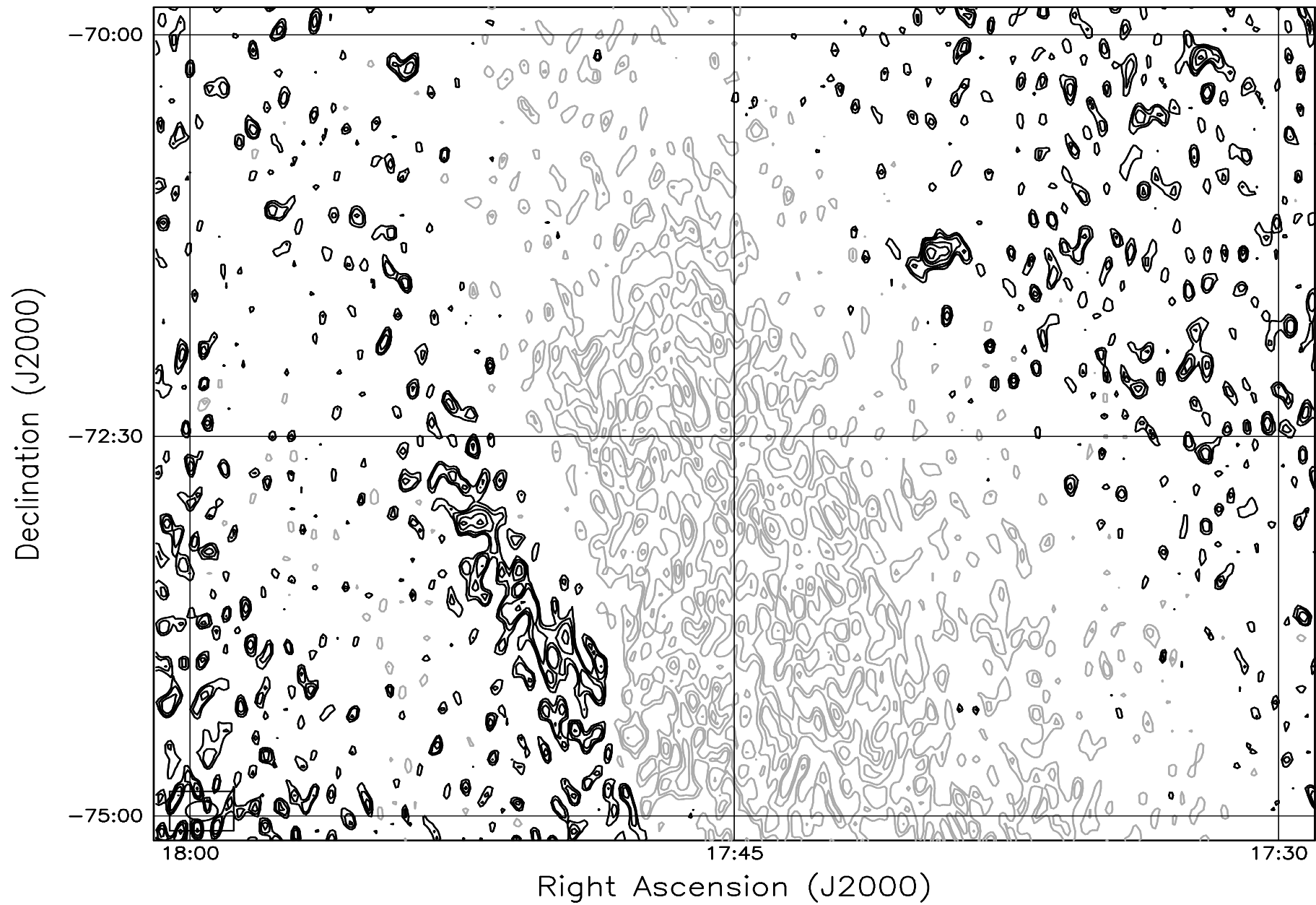


Fig. A.66: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-75^{\circ}$  to  $-70^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



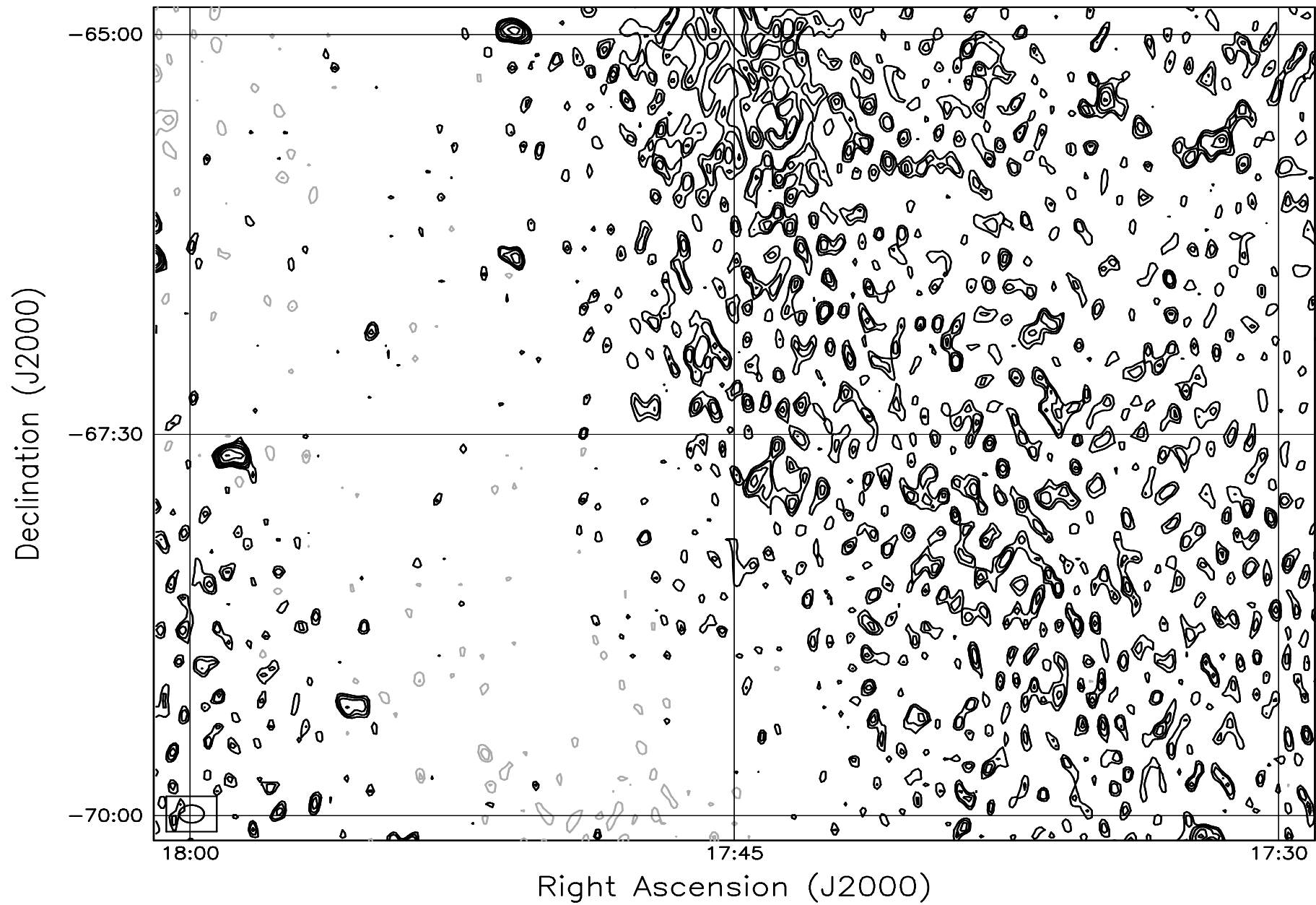


Fig. A.67: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-70^{\circ}$  to  $-65^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

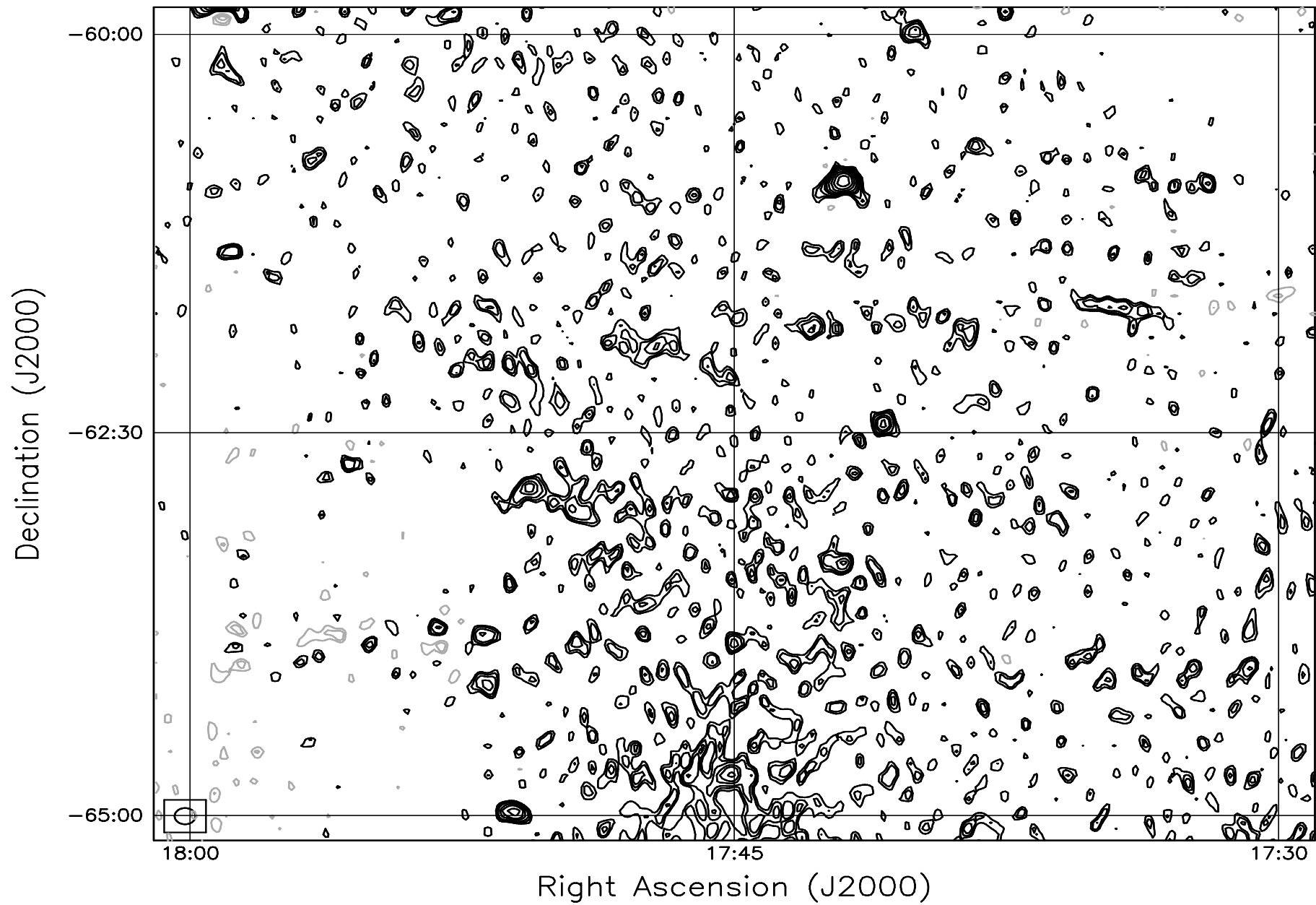


Fig. A.68: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-65^{\circ}$  to  $-60^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

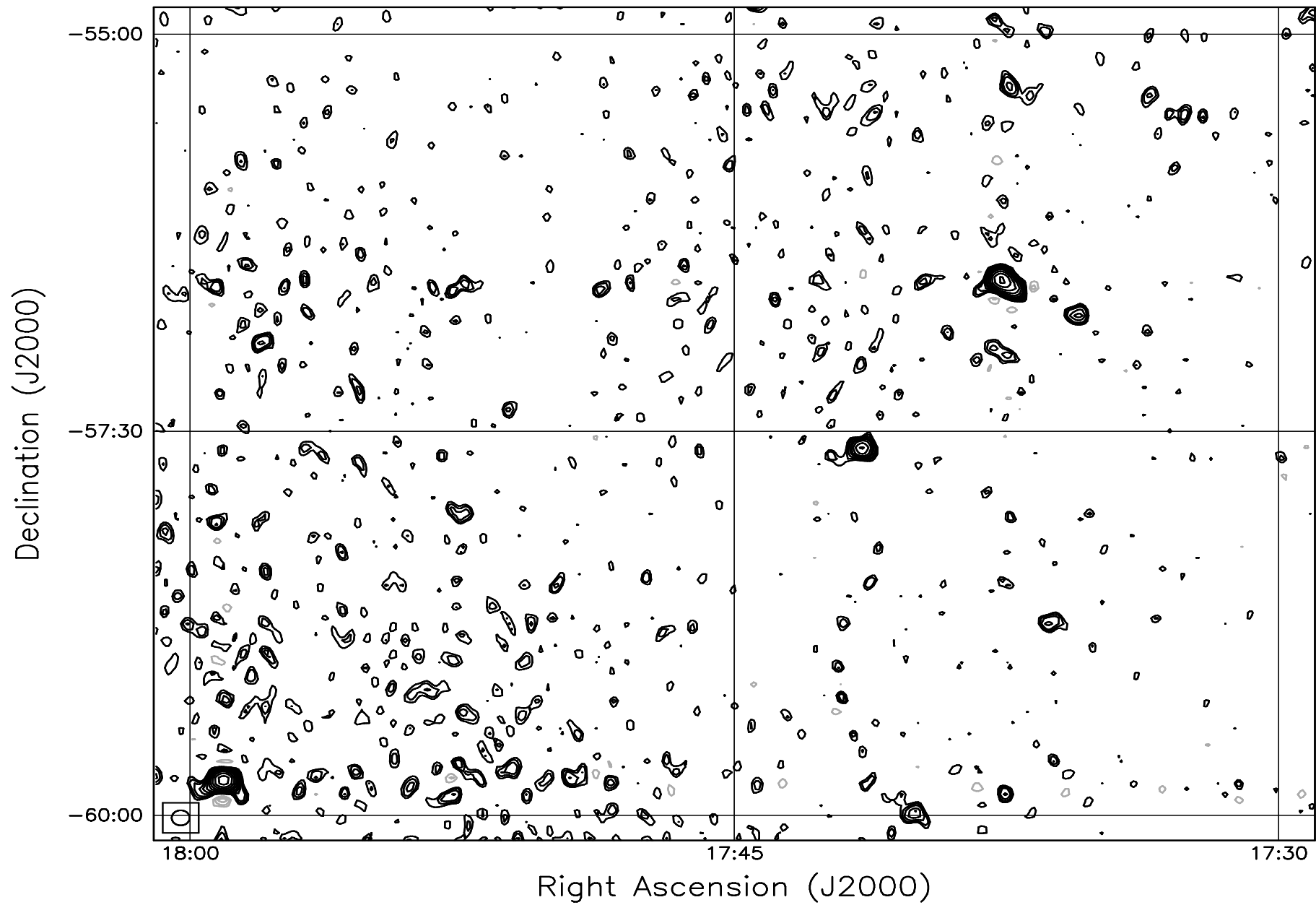


Fig. A.69: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-60^{\circ}$  to  $-55^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

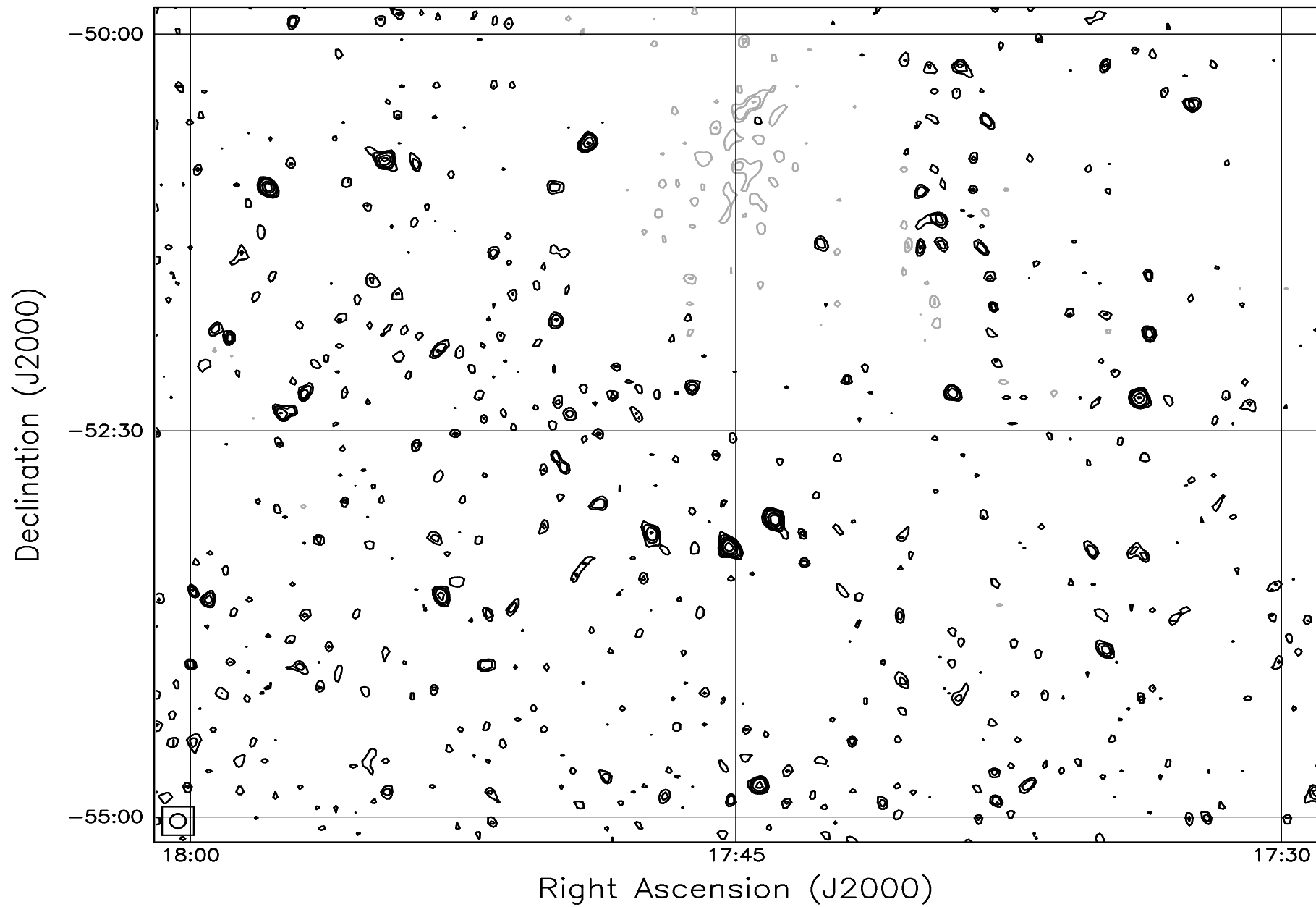


Fig. A.70: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-55^{\circ}$  to  $-50^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

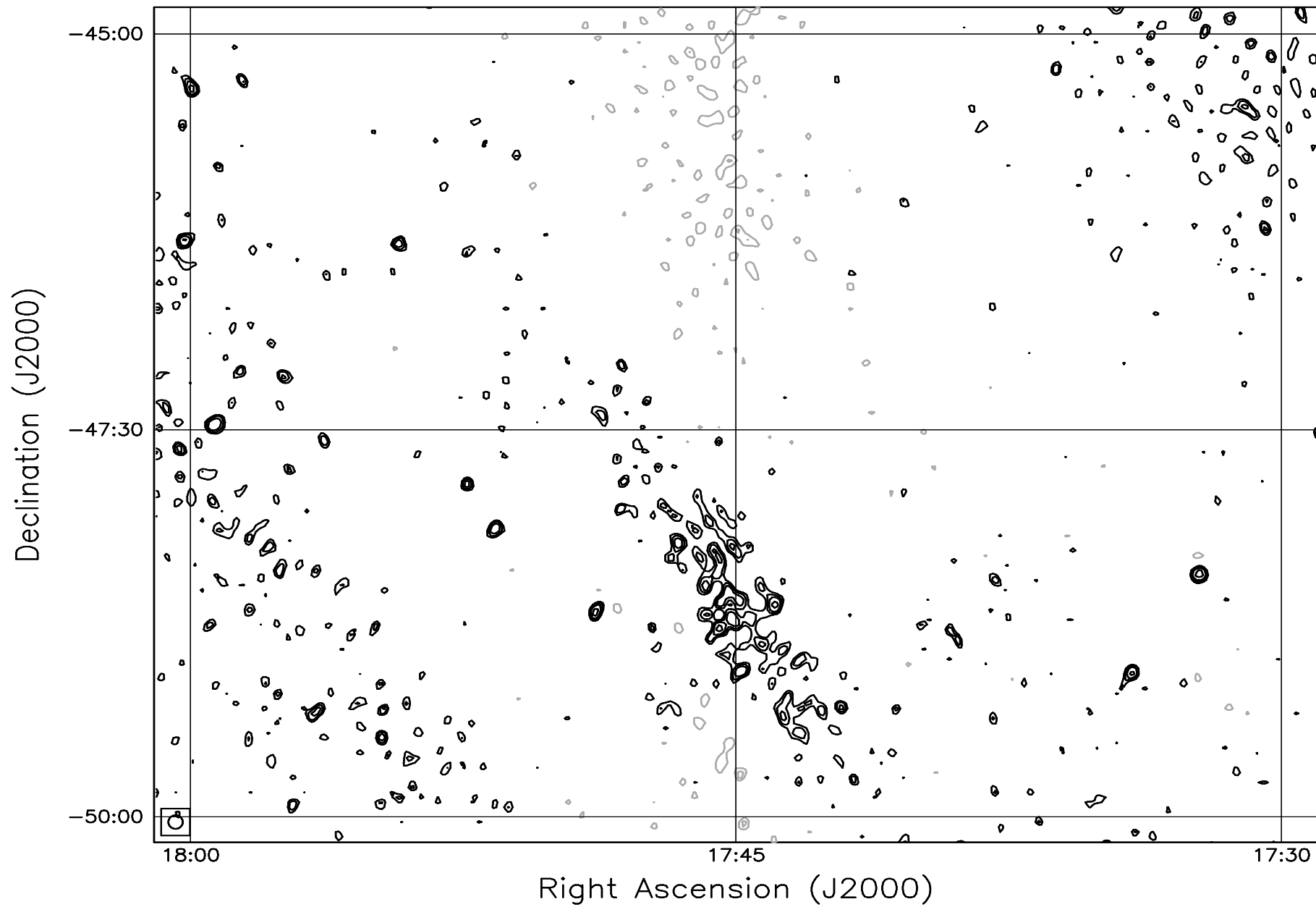


Fig. A.71: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-50^\circ$  to  $-45^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

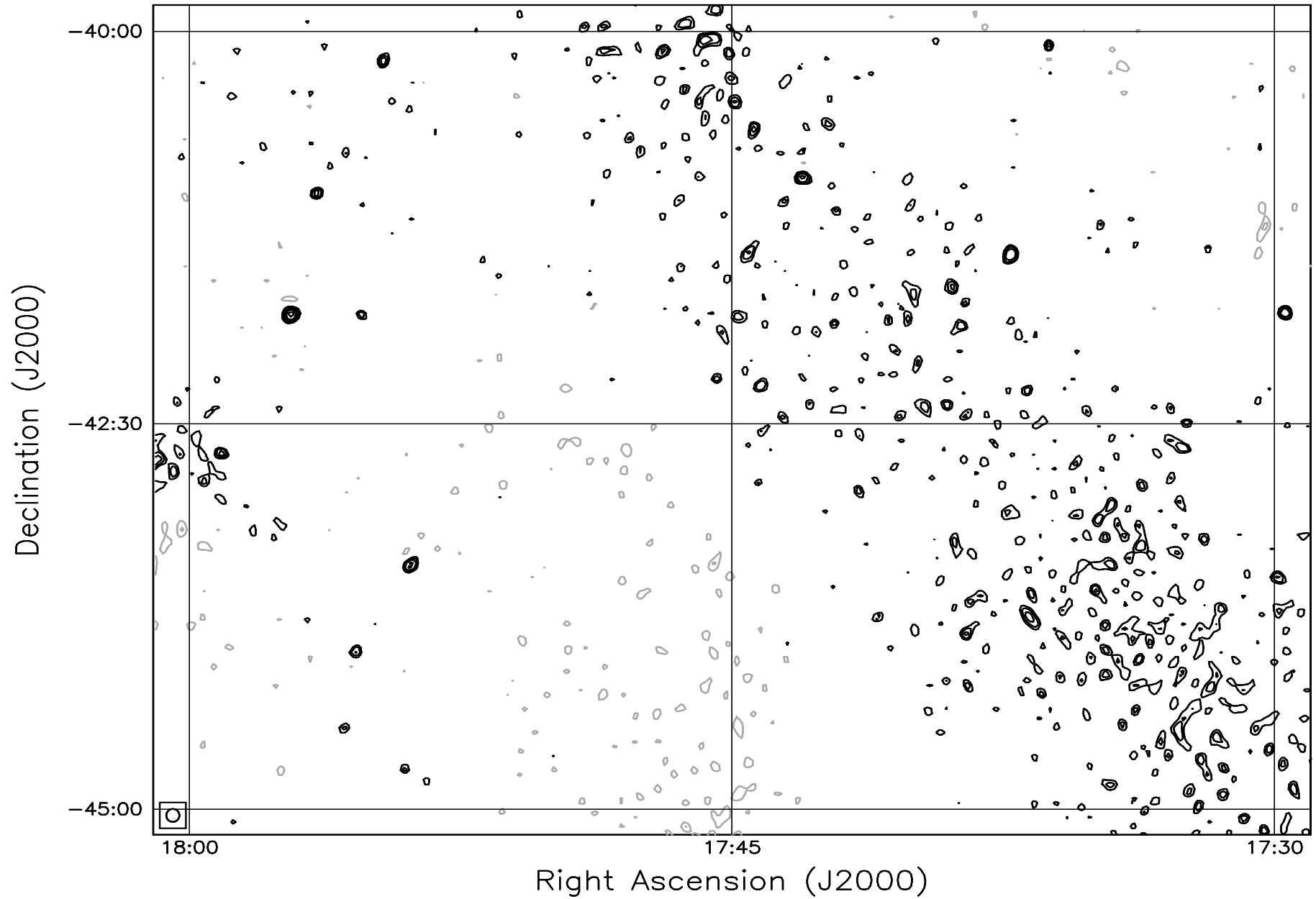


Fig. A.72: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-45^\circ$  to  $-40^\circ$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

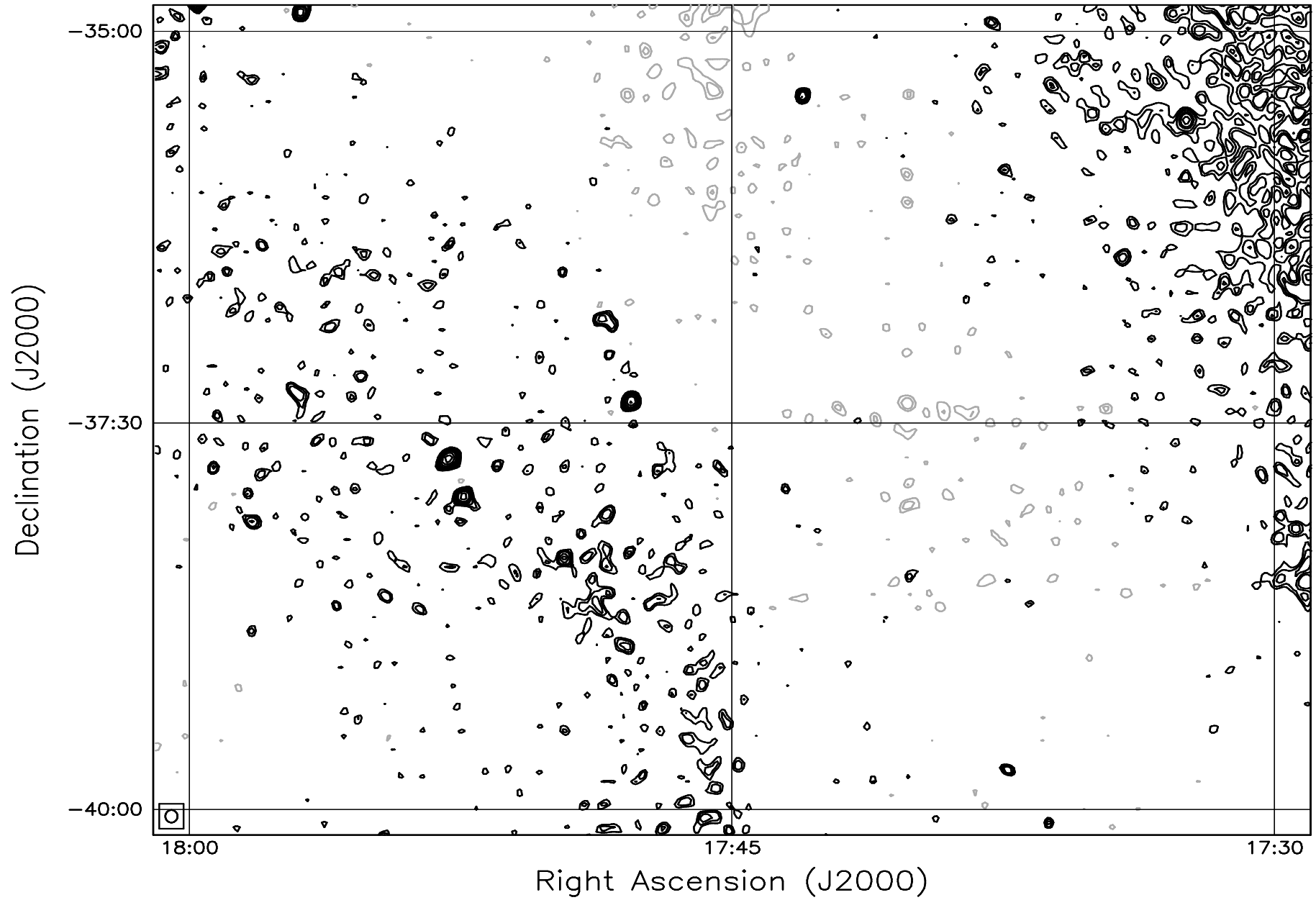


Fig. A.73: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-40^{\circ}$  to  $-35^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

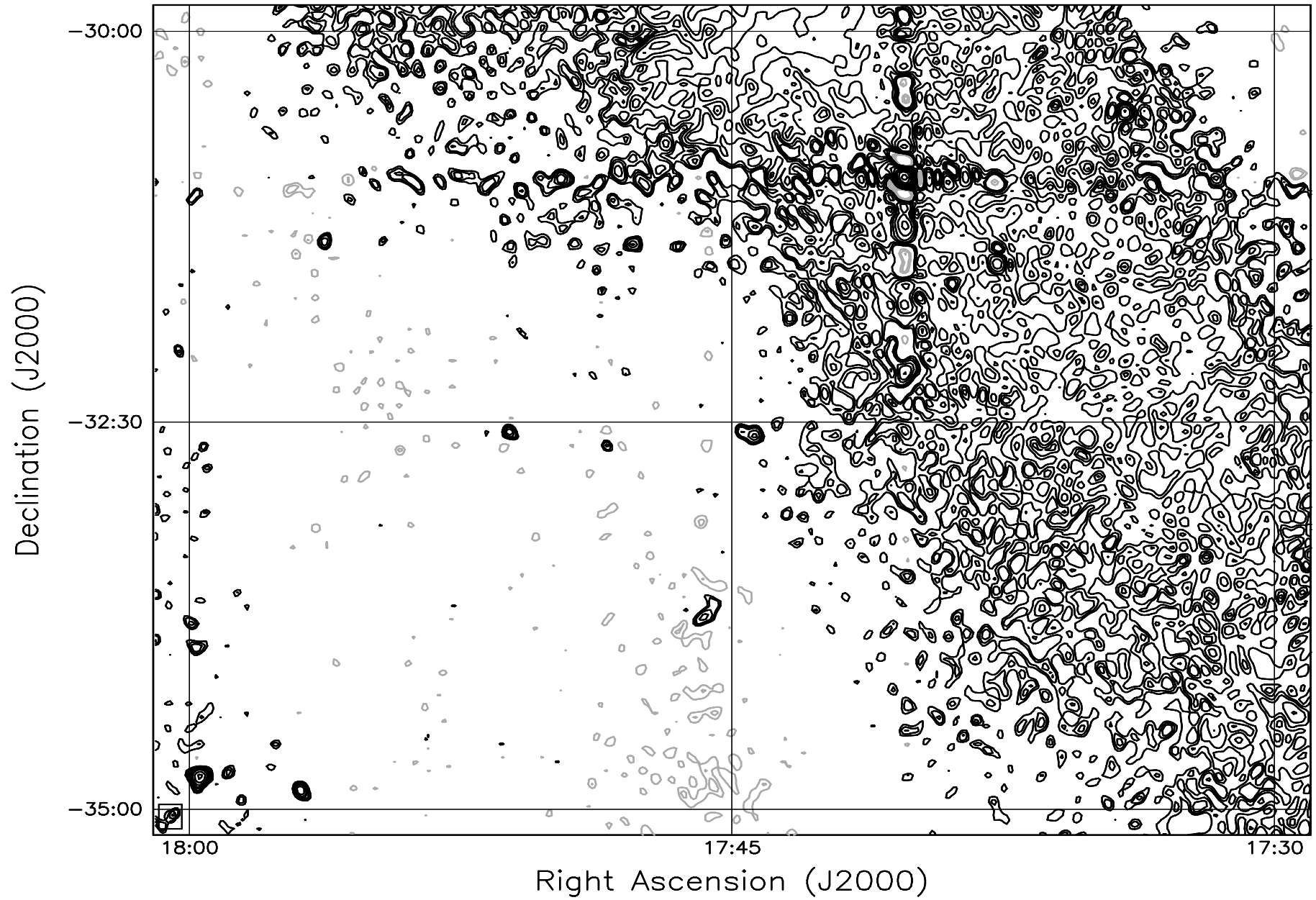


Fig. A.74: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-35^{\circ}$  to  $-30^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .



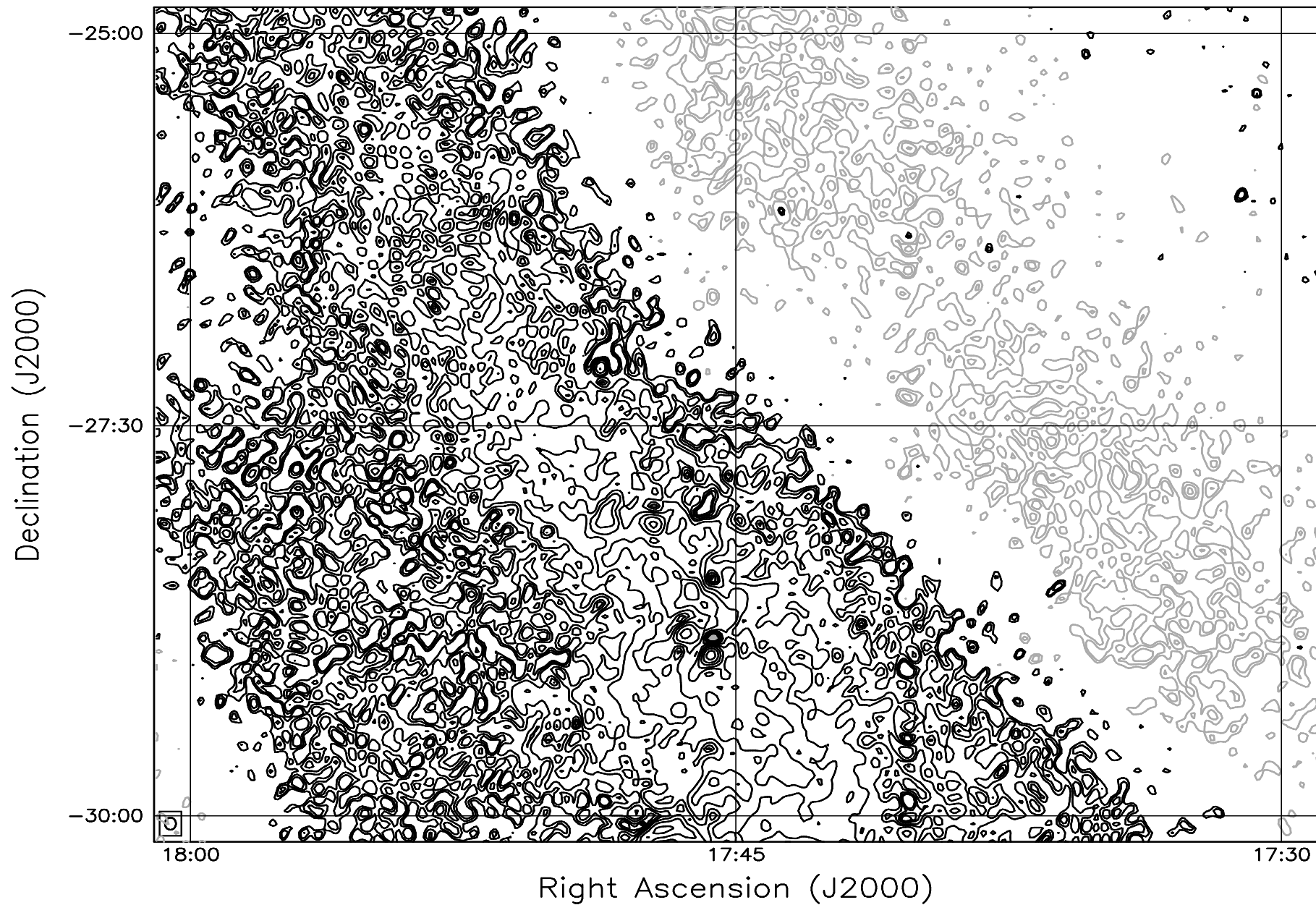


Fig. A.75: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-30^{\circ}$  to  $-25^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

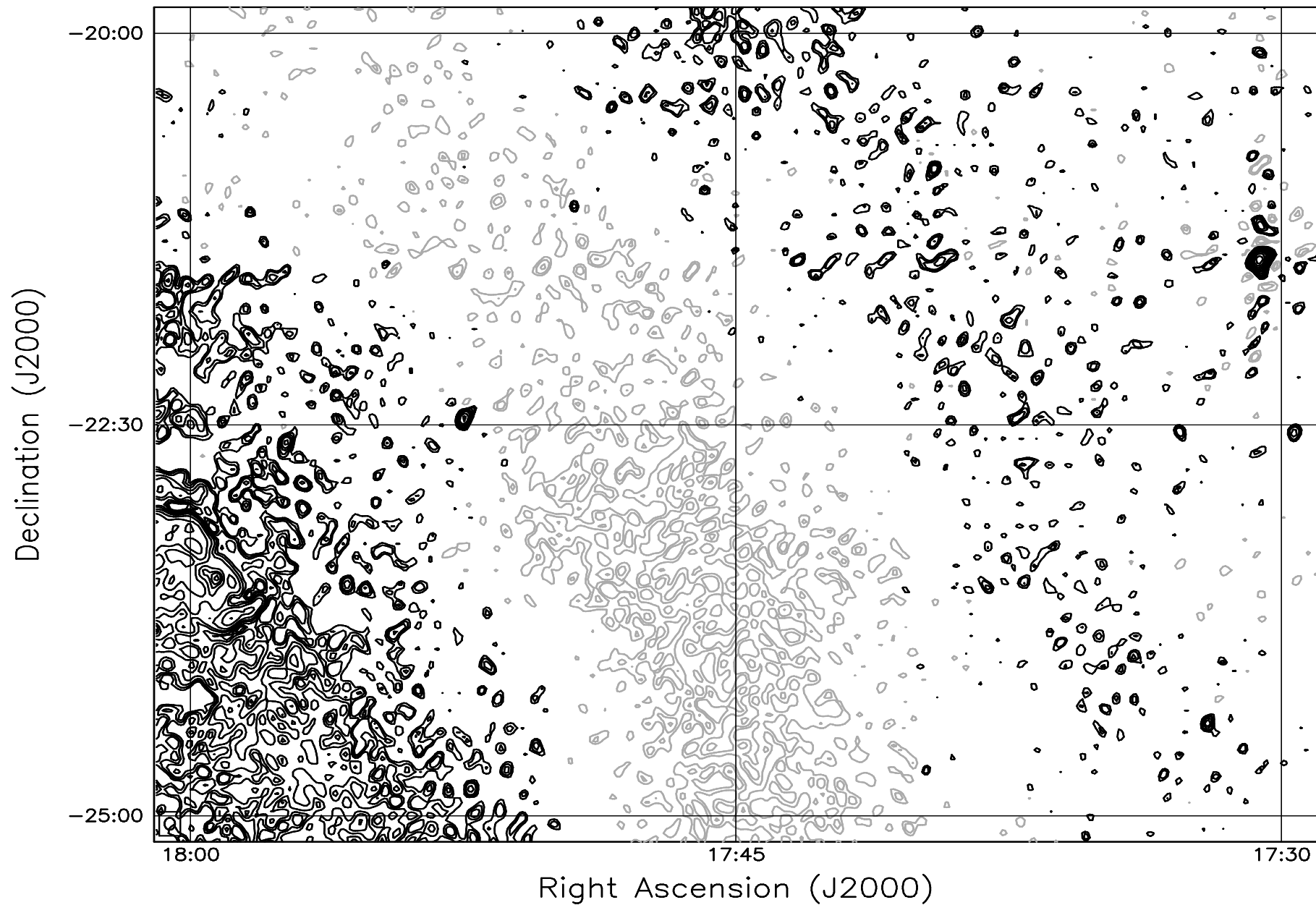


Fig. A.76: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-25^{\circ}$  to  $-20^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

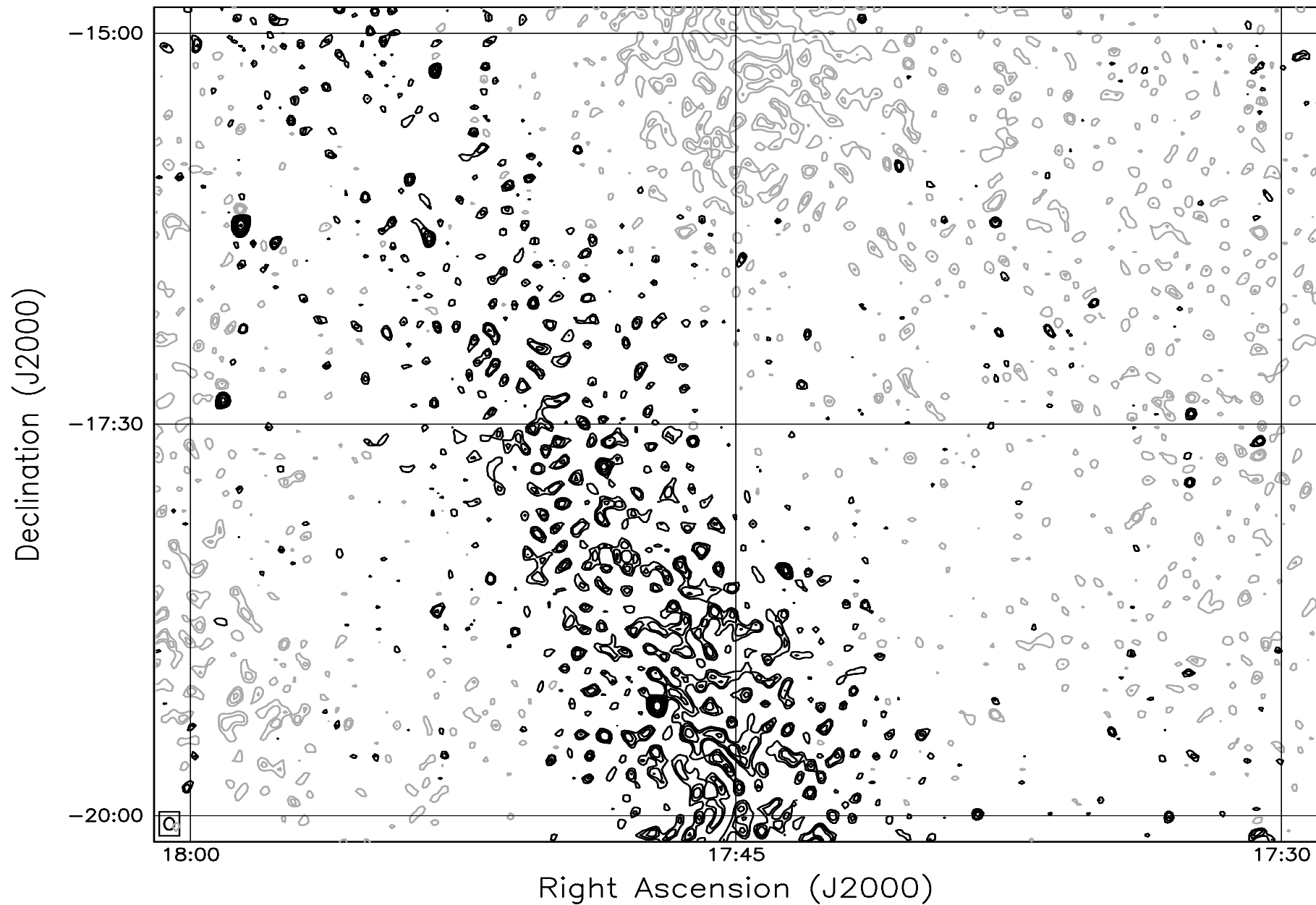


Fig. A.77: Contour map covering the right ascension range 17h30m to 18h00m and declination range  $-20^{\circ}$  to  $-15^{\circ}$ . The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0  $\text{Jy beam}^{-1}$ .

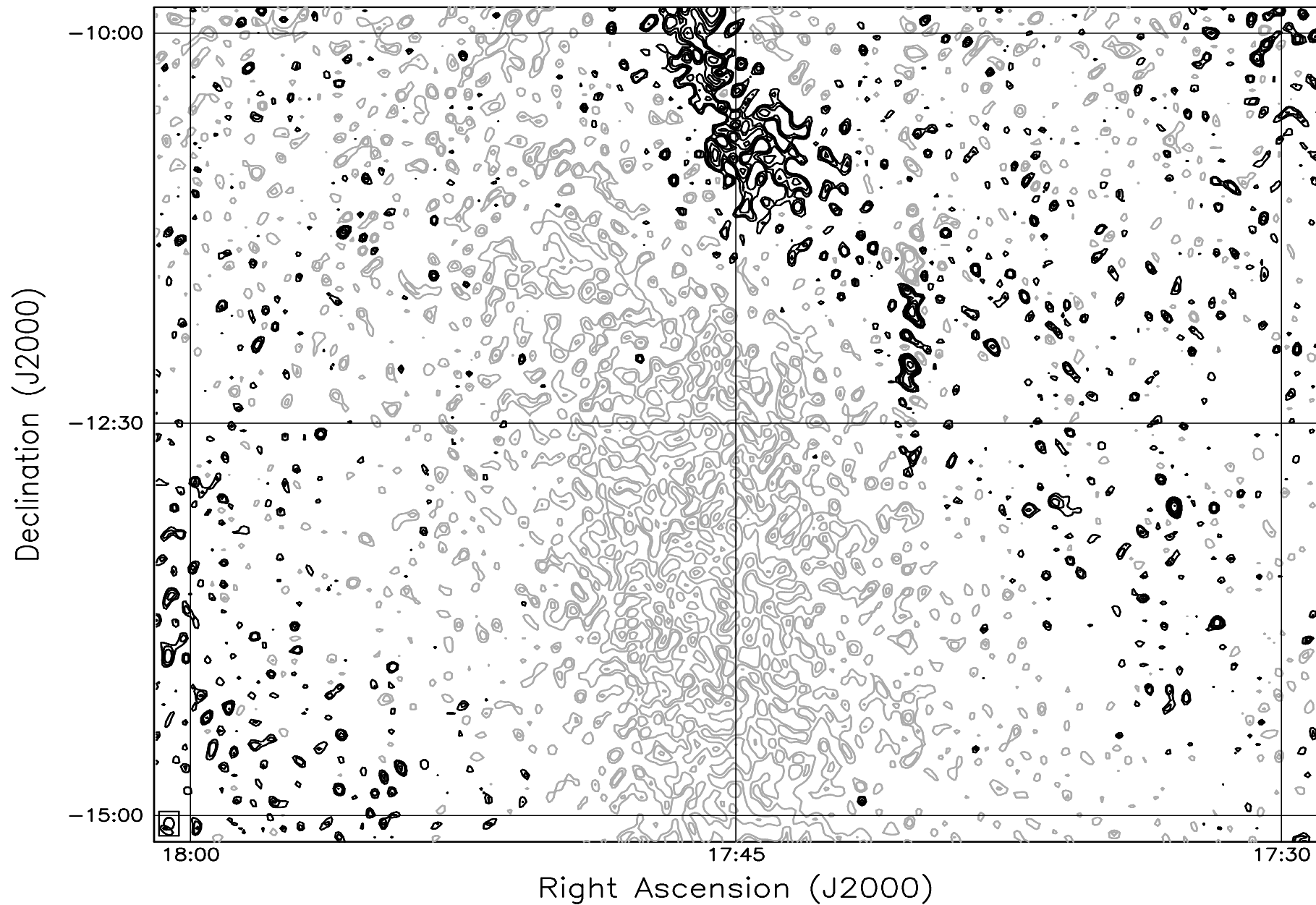


Fig. A.78: Contour map covering the right ascension range 17h30m to 18h00m and declination range -15° to -10°. The contour levels are -5.0, -3.6, -2.5, -1.8, 1.0, 1.4, 2.0, 2.8, 3.6, 5.0, 7.2, 10.0, 14.4, 20.16, 28.8, 39.6, 54.0, 72.0, 90.0, 100.0, 136.0, 180.0, 216.0, 252.0, 288.0 Jy beam<sup>-1</sup>.