

The spiral structure of our Milky Way Galaxy[★]

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ABSTRACT

Context. The spiral structure of our Milky Way Galaxy is not yet known. HII regions and giant molecular clouds are the most prominent spiral tracers. Models with 2–4 arms have been proposed to outline the structure of our Galaxy.

Aims. Recently, new data of spiral tracers covering a larger region of the Galactic disk have been published. We wish to outline the spiral structure of the Milky way using all tracer data.

Methods. We collected the spiral tracer data of our Milky Way from the literature, namely, HII regions and giant molecular clouds (GMCs). With weighting factors based on the excitation parameters of HII regions or the masses of GMCs, we fitted the distribution of these tracers with models of two, three, four spiral-arms or polynomial spiral arms. The distances of tracers, if not available from stellar or direct measurements, were estimated kinetically from the standard rotation curve of Brand & Blitz (1993, A&A, 275, 67) with $R_0 = 8.5$ kpc, and $\Theta_0 = 220$ km s⁻¹ or the newly fitted rotation curves with $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s⁻¹ or $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s⁻¹.

Results. We found that the two-arm logarithmic model cannot fit the data in many regions. The three- and the four-arm logarithmic models are able to connect most tracers. However, at least two observed tangential directions cannot be matched by the three- or four-arm model. We composed a polynomial spiral arm model, which can not only fit the tracer distribution but also match observed tangential directions. Using new rotation curves with $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s⁻¹ and $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s⁻¹ for the estimation of kinematic distances, we found that the distribution of HII regions and GMCs can fit the models well, although the results do not change significantly compared to the parameters with the standard R_0 and Θ_0 .

Key words. Galaxy: structure – Galaxy: kinematics and dynamics – ISM: HII regions

1. Introduction

The Milky Way galaxy is known to be a spiral galaxy, but its detailed spiral structure has not been well revealed. The Milky Way may have two arms, or three arms, or even more complicated structures (Vallée 2008). At present, the number of arms and arm parameters (i.e. the pitch angle and the initial Galactocentric radius) have not been well determined. Nevertheless, some consensus on the Galactic structure has been reached (Russeil 2003, hereafter R03): (1) the tangential directions of the spiral arms have been identified from the maxima of the thermal radio continuum and molecular emission (see Table 1 in Englmaier & Gerhard 1999; or Table 2 in Vallée 2008); (2) the Sagittarius arm and the Carina arm are linked as a single arm; (3) the Sun lies between the Perseus arm and Sagittarius arm.

To outline the structure of our Galaxy, one should use all reliable tracers with accurate distances. Primary tracers are:

(1) HII regions. HII regions are the birthplace of young stars. They are clouds of atomic hydrogen ionized by bright young stars. Their radio emission cannot be attenuated by dust extinction, and therefore they can be detected even in distant parts of the Galactic plane. Georgelin & Georgelin (1976) investigated the distribution of the available sample of HII regions that

time, and outlined four segments of arms. Downes et al. (1980) observed more HII regions in the first quadrant and Caswell & Haynes (1987) reported comprehensive data of southern HII regions in the Galaxy over the Galactic longitude $l = 210^\circ$ to $l = 360^\circ$, which help to delineate the spiral structure, especially for the Carina arm and the Crux arm.

(2) Giant molecular clouds (GMCs). The GMCs are vast assemblies of molecular gas with a mass of $10^4 \sim 10^6 M_\odot$ and a size of tens of pc. They have an average density of $10^2 \sim 10^3$ cm⁻³ but their core density can reach $10^6 \sim 10^7$ cm⁻³. Because the interstellar medium is almost optically thin for the CO emission line, distant clouds in the Galactic plane can be detected. Cohen et al. (1986) showed that the GMCs are good tracers of the Carina arm. Dame et al. (1986) solved the distance ambiguity of some GMCs in the first quadrant, and used them to outline the Sagittarius arm. Solomon et al. (1987) studied warm molecular clouds in the first quadrant, and delineated three arm-like structures, the Perseus arm, the Sagittarius arm and another possible one, the Scutum arm. Grabelsky et al. (1988) cataloged GMCs over the Galactic longitude from $l = 270^\circ$ to $l = 300^\circ$, and outlined the Sagittarius-Carina arm using GMCs over 23 kpc in the Galactic plane. More GMCs should be identified from the complete CO map of our Galaxy composed by Dame et al. (2001), but unfortunately, this has not yet been done.

[★] Appendices are only available in electronic form at <http://www.aanda.org>

In addition, HI gas is one of the major components of the interstellar medium in spiral galaxies. [Levine et al. \(2006\)](#) decomposed the HI data into the smoothed component and perturbed surface density map, and found a spiral structure out to at least 25 kpc. Four arm-segments appear in the outer Milky Way disk.

As shown in external Galaxies, the distribution of the brightest HII regions and of the most massive molecular clouds generally traces the grand design structure. To our knowledge, previous authors examining the spiral structure of the Milky Way used only HII regions or GMCs, and none considered all tracers together for spiral structure, except for R03 who considered the complexes of HII regions and molecular clouds. R03 showed the distribution of a large sample of star-forming complexes (constituted by HII regions, ionized patches and/or molecular clouds or the mixture of any two), and fitted it with two, three, or four logarithmic spiral arm models. The four-arm model is slightly more preferable than the three-arm model. We collect a catalog of HII regions and GMCs, and use those tracers together to show the grand design of our Galaxy. In Sect. 2, we discuss spiral tracers and determine their parameters (distance, and the assigned weight – here we mean the weighting factor rather than the mass). In Sect. 3, we present the distribution of the tracers and discuss the models. Conclusions are presented in Sect. 4.

2. Tracer data for the Galactic spiral structure

To reveal the structure of our Galaxy, tracers spread over the whole Galactic disk are needed. Also, their distances have to be determined.

2.1. Tracers for the Galactic spiral structure: data

For any tracer in the *outer* Galaxy, if its stellar distance cannot be determined, one can use the kinematic method to estimate the distance. However, for a tracer in the inner Galaxy, the distance ambiguity is a problem. Two possible distances correspond to the same observed radial velocity. Because the distance ambiguity of HII regions can be resolved by HI/H₂CO emission/absorption observations or the HI self-absorption method (e.g. [Anderson & Bania 2009](#); [Tian & Leahy 2008](#)), HII regions are excellent tracers in the inner Galaxy.

In addition to [Georgelin & Georgelin \(1976\)](#), [Downes et al. \(1980\)](#) and [Caswell & Haynes \(1987\)](#) on the spiral structure of the Milky Way using HII regions as spiral tracers, [Paladini et al. \(2003\)](#) collected a catalog of Galactic HII regions, which contained 1442 sources. [Paladini et al. \(2004\)](#) presented a new, detailed analysis of the spatial distribution of some Galactic HII regions. [Araya et al. \(2002\)](#), [Watson et al. \(2003\)](#), and [Sewilo et al. \(2004\)](#) reported simultaneous H110 α and H₂CO line observations toward HII regions in the first quadrant and resolved the distance ambiguity. [Kuchar & Bania \(1994\)](#), [Kolpak et al. \(2003\)](#), [Fish et al. \(2003\)](#), [Pandian et al. \(2008\)](#), [Anderson & Bania \(2009\)](#) used HI absorption to resolve the distance ambiguity for other samples of HII regions. R03 established a star-forming complex catalog, and derived Galactic structure. [Russeil et al. \(2007\)](#) revised distances of 32 HII regions.

For GMCs, besides [Dame et al. \(1986\)](#), [Solomon et al. \(1987\)](#) and [Grabelsky et al. \(1988\)](#) for spiral structure of the Milky Way, there are also investigations on Galactic molecular clouds. [Mead & Kutner \(1988\)](#) reported 31 clouds in the first quadrant outside the solar circle. [Digel et al. \(1990\)](#) observed 32 clouds, related to the Outer arm in the first quadrant. [Sodroski \(1991\)](#) studied 35 clouds located in the second, third

and fourth quadrants. [May et al. \(1997\)](#) identified 177 clouds in the third quadrant, and shown disk structure as well as warping of the disk. [Carpenter et al. \(1990\)](#) studied 18 molecular clouds in the outer Galactic disk. [Brand & Wouterloot \(1994\)](#) detected a sample of molecular clouds located in the far outer Milky Way. [Nakagawa et al. \(2005\)](#) revealed 70 molecular clouds in the Galactic Warp with a kinematic distance greater than about 14.5 kpc. [Heyer et al. \(2001\)](#) summarized the properties of molecular regions in the outer galaxy from the Five College Radio Astronomy Observatory Outer Galaxy Survey.

We have collected the published data of HII regions and GMCs from the references above, including position, velocity, flux, etc. The stellar distances of HII regions are used when possible, otherwise the kinematic distances are estimated by using three rotation curves (see below), one with the constants $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s⁻¹, another with $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s⁻¹ and also the new one with $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s⁻¹. Here R_0 is the distance between the Sun and the Galactic Center, and Θ_0 is the velocity of the Sun circling around the Galactic Center. The excitation parameters of HII regions and the masses of GMCs are estimated and rescaled to the adopted distances. Clouds with a mass less than $10^4 M_\odot$ are not massive and will not be considered. We have cross-identified the tracers according to their longitudes, latitudes and velocities to avoid redundancy. We list all related parameters of the tracers with references in Tables A.1 and A.2 (online version only).

2.2. Rotation curves and distances of tracers

The distance of a given spiral tracer could be best determined by triangulation observations (e.g. [Xu et al. 2006, 2008](#); [Brunthaler et al. 2008](#); [Zhang et al. 2008](#); [Reid et al. 2008](#); [Moscadelli et al. 2008](#)). Only a few clouds or HII regions have been so well measured. For many tracers, the distance of the associated bright stars is adopted from the literature. Here, we will use these measurements to verify the rotation curves.

The Galactic rotation curve has been derived from the tracers with their stellar distances and velocities already determined. In the last 20 years, four rotation curves have been used for the spiral structure of the Milky Way: one for the whole Galaxy from [Brand & Blitz \(1993\)](#), hereafter BB93, the two for the north part of the Galaxy from [Clemens \(1985\)](#) and [Fich et al. \(1989\)](#), and the very simple flat rotation curve with $\Theta = 220$ km s⁻¹ for the whole Galaxy. R03 obtained a Galactic rotation curve by using his sample of star-forming complexes, which is almost the same as that of BB93.

Using the sources with stellar distances in our collected sample, we verified the four possible rotation curves mentioned above with the IAU standard values, $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s⁻¹. Similarly to R03, we calculated the parameter τ :

$$\tau = \frac{1}{N} \sum_{i=1}^N \sqrt{\frac{(R_i - R_t)^2}{\sigma_{R_i}^2} + \frac{(\omega_i - \omega_t)^2}{\sigma_{\omega_i}^2}}. \quad (1)$$

Here, R_i and ω_i are the Galactocentric distance and the angular rotation velocity of a tracer, respectively, and σ_{R_i} and σ_{ω_i} are their uncertainties. R_t , ω_t are the coordinates of the theoretical points. The most appropriate rotation curve should minimize the parameter τ . We found that the rotation curve of [Clemens \(1985\)](#) can indeed minimize the parameter τ for the north part and the whole Galaxy with a polynomial fit. However it fits all the structures of the curve, even those caused by local motions. The τ for the rotation curve of [Fich et al. \(1989\)](#) and the simple flat one are larger than that of BB93 both in the north part and

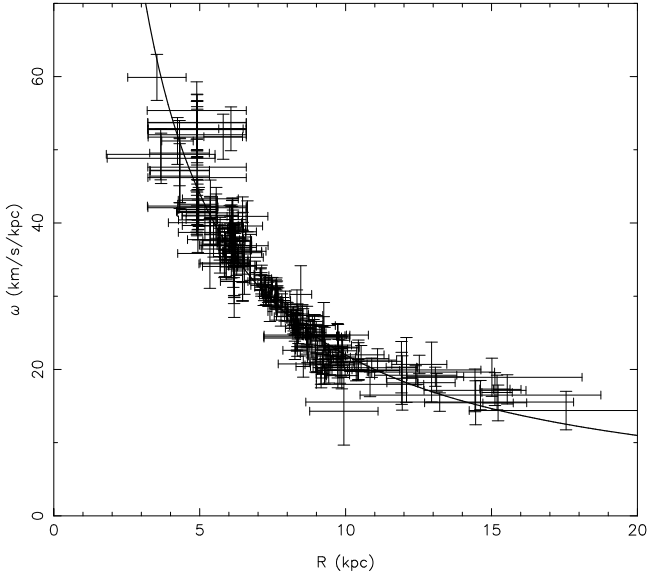


Fig. 1. The rotation curve fitted with solar parameters $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$. Data are taken from our collected sample listed in Tables A.1 and A.2.

whole Galaxy. The rotation curve of BB93 (i.e. Eq. (2) below with $a = 1.00767$, $b = 0.0394$ and $c = 0.00712$) is reasonable for all data of the whole Galaxy. We will directly adopt it to estimate the kinematic distances of the spiral tracers for the case with $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$.

More and more pieces of evidence of $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$ have been found (Reid 1993; Ghez et al. 2008; Eisenhauer et al. 2003; Groenewegen et al. 2008; Gillessen et al. 2009). The change of these constants may affect the kinematic distances of tracers and then affect the derived structure of the Milky Way. Therefore, we fit a new rotation curve with (see Brand & Blitz 1993, R03):

$$\omega/\omega_0 = a(R/R_0)^{b-1} + c(R_0/R). \quad (2)$$

We set the rotation curve to pass through the new R_0 and Θ_0 , and set $c = 1 - a$. By minimizing τ in Eq. (1), we found the best values, $a = 1.59073$, $b = -0.000816$. The result is shown in Fig. 1. In Sect. 3.3, we will use this rotation curve, and also the newly determined one with $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s $^{-1}$ by Reid et al. (2009), to estimate the kinematic distances and related parameters, and outline the spiral structure. Note that Gillessen et al. (2009) obtained $R_0 = 8.33 \pm 0.35$ kpc from the combined fitting to observations of 16 years for stellar orbits around the black hole in the Galactic center.

2.3. Tracers of Galactic spiral structure: weights

The brighter the HII region, the better it is as a tracer of spiral structure. We use the excitation parameters of HII regions as a weighting factor to demonstrate spiral structure. Georgelin & Georgelin (1976) delineated four arm-segments using HII regions with an excitation parameter U greater than 70 pc cm $^{-2}$. R03 used the excitation parameter as a weighting factor in their fitting process. The excitation parameter U (in pc cm $^{-2}$) is defined as (Schraml & Mezger 1969):

$$U = 4.5526\alpha(v, T)^{-1}v^{0.1}T^{0.35}S_vD^2. \quad (3)$$

Here, T is the temperature (in K), S_v is the radio flux density (in Jy), v is the frequency (in GHz), D is the distance of the

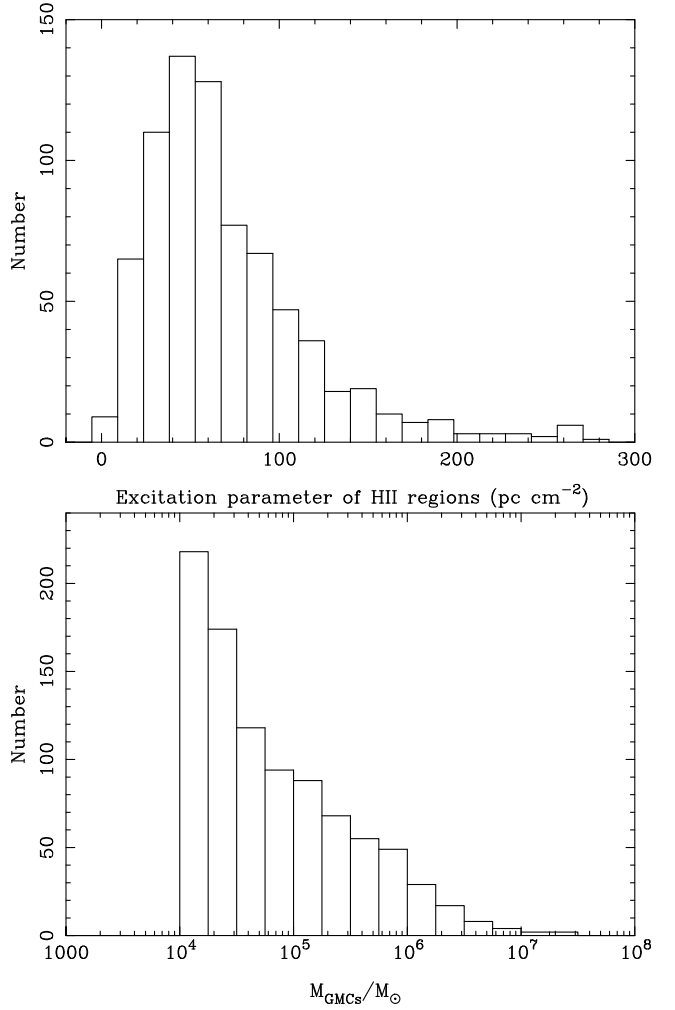


Fig. 2. The distribution of excitation parameters of the HII regions (*top panel*) and masses of molecular clouds (*bottom panel*). The rotation curve with $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$ was used if the distances of these tracers were estimated kinetically.

tracers to the Sun (in kpc), and $\alpha(v, T)$ is a parameter close to 1 (Schraml & Mezger 1969). We collected the S_v from the literature when available. The excitation parameter U is then estimated via Eq. (3) using S_v and assuming $T = 8500$ K. For a temperature in the range of $7000 \sim 10000$ K the value of excitation parameter differs by less than about 6%. The distribution of excitation parameters of HII regions in our sample is shown in Fig. 2. It ranges from 5 to 332 pc cm $^{-2}$ with a peak around 50 pc cm $^{-2}$.

Massive molecular clouds are more concentrated to in the spiral arms than clouds with low masses. The mass of a molecular cloud M_{GMCs} was rescaled with newly adopted distances. The distribution of M_{GMCs} is shown in Fig. 2, ranging from $1 \times 10^4 M_\odot$ to $2.5 \times 10^7 M_\odot$. More clouds have a lower mass.

In order to use the HII regions and GMCs together to outline the spiral structure of our Galaxy, a reasonable match of weighting parameters should be considered to measure their relative importance to the spiral structure. Obviously, a HII region with a higher excitation parameter or a GMC with a larger M_{GMCs} should have a larger value of weight. For the HII regions, we take the weighting parameter $B = U/(100 \text{ pc cm}^{-2})$, so that an HII region with $U = 100$ pc cm $^{-2}$ has a weight of 1 in the determination of the spiral pattern, while an HII region with $U = 200$ pc cm $^{-2}$ has a weight of 2. For the GMCs, the weighting parameter is

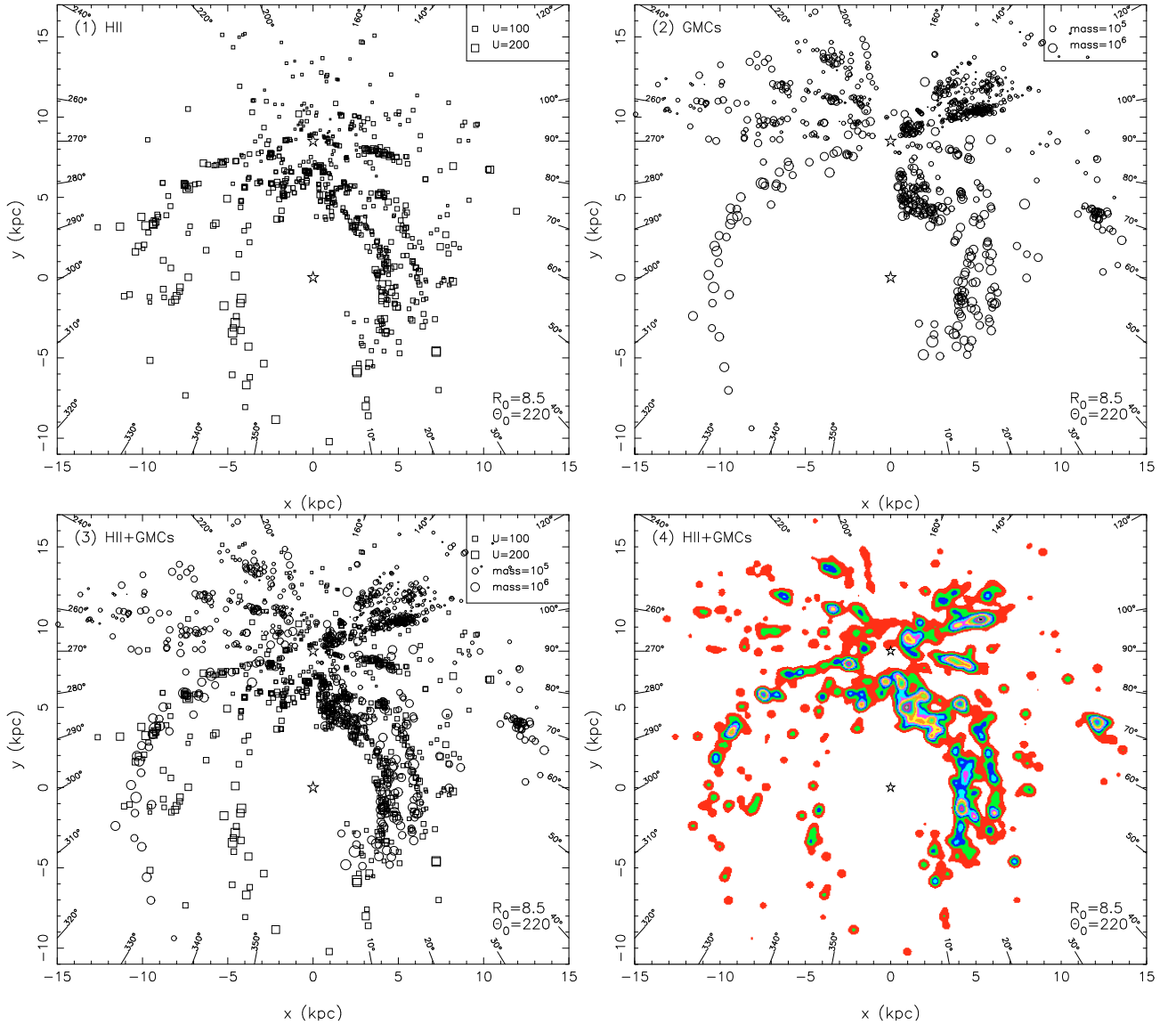


Fig. 3. Panel (1) is the distribution of HII regions, Panel (2) is the distribution of GMCs, and Panel (3) is the distribution of HII regions and GMCs together for illustration of the Galactic spiral structure. The solar parameters $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s⁻¹ were adopted. The coordinates originate from the Galactic center, and the Sun is located at $(x = 0.0$ kpc, $y = 8.5$ kpc). The open squares indicate the HII regions with the symbol area proportional to exciting parameters. The open circles indicate GMCs with the symbol size proportional to $\log(M_{\text{GMCs}})$ (see Sect. 2.3). Panel (4) is the color distribution of both kinds of tracers, each brightened as a Gaussian with the amplitude of the weighting parameter, B , so that the spiral arms are clearly demonstrated.

taken to be $B = \log(M_{\text{GMCs}}/10^4 M_{\odot})$, so that the clouds with a mass of $10^5 M_{\odot}$ have a weight of $B = 1$, and clouds of $10^6 M_{\odot}$ have a weight of 2. We have also tried other weighting measures, such as $B = U/(50 \text{ pc cm}^{-2})$ and $B = 2 \log(M_{\text{GMCs}}/10^4 M_{\odot})$, and found that the arm structure is similar but with more emphasis on GMCs.

An additional factor needed in the spiral fitting is the distance uncertainty of each tracer. If the uncertainty of observed stellar distance is known, we use it directly. If the kinematic distance is used, we adopt a systemic velocity uncertainty of ± 5 km s⁻¹, and then the distance uncertainty can be derived by using a rotation curve. As we search for the best match of spiral arms in $X - Y$ coordinates, distance uncertainty will be expressed in X and Y . We set a fitting weighting factor $w_x = 0.5/\sigma_x$ and $w_y = 0.5/\sigma_y$. We assign all tracers with a distance accuracy better than 0.5 kpc (i.e. $\sigma_x < 0.5$ kpc) to have $w_x = 1$, and $w_y = 1$ if $\sigma_y < 0.5$ kpc.

3. The spiral arms of the Milky Way

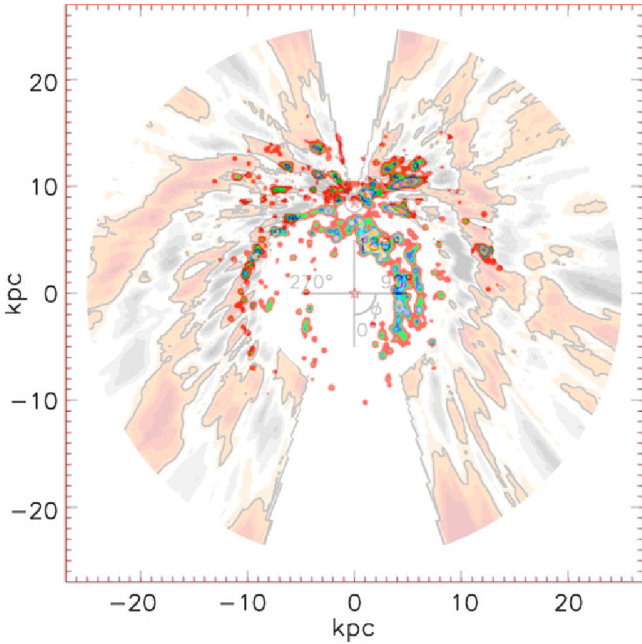
Figure 3 shows the distribution of tracers for the Galactic spiral structure projected onto the Galactic plane. The sizes of symbols have been scaled according to the weighting factors B obtained from excitation parameter U or cloud mass. GMCs in a large region of the fourth Galactic quadrant have been mapped by Dame et al. (2001), but unfortunately, the discrete GMCs have not been identified and explicitly listed in the literature. To show spiral arms better using available data of HII regions and GMCs, in the fourth panel of Fig. 3, we use a Gaussian function to brighten each tracer through:

$$L(x, y) = \sum_i \frac{B(i)}{\sqrt{2\pi\sigma^2}} \exp\left(-\frac{(x_i - x)^2 + (y_i - y)^2}{2\sigma^2}\right). \quad (4)$$

Here we took $\sigma = 0.2$, which means that each tracer will brighten an area with a radius of about 200 pc. This is larger

Table 1. The parameters of the best fitting models: the initial radius, R_i , the start azimuthal angle, θ_i , and the pitch angle, ψ_i , for the i th arm.

Model	R_1 (kpc)	θ_1 ($^\circ$)	ψ_1 ($^\circ$)	R_2 (kpc)	θ_2 ($^\circ$)	ψ_2 ($^\circ$)	R_3 (kpc)	θ_3 ($^\circ$)	ψ_3 ($^\circ$)	R_4 ($^\circ$)	θ_4 ($^\circ$)	ψ_4 (kpc)	Z
For distribution of tracers with $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$													
2-arm model	4.2	147	5.3	4.0	297	5.2							0.47
3-arm model	3.8	40	7.8	3.6	195	9.9	4.0	303	7.5				0.45
4-arm model	3.7	40	9.6	4.5	205	10.7	4.4	290	11.4	3.9	309	8.7	0.35
For distribution of tracers with $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$													
2-arm model	4.0	151	5.1	3.9	315	5.0							0.43
3-arm model	3.6	40	8.0	3.5	195	9.6	3.9	303	7.4				0.41
4-arm model	3.6	40	9.2	3.7	205	12.5	4.2	290	11.1	3.8	309	8.4	0.33

**Fig. 4.** The spiral structure of HII regions and GMCs ($R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$) is overlaid on the HI map (Levine et al. 2006).

than the size of a GMC, but we can delineate the spiral structure more clearly. A different value of σ in a suitable range (e.g. 50–400 pc) produces a similar figure. In the fourth Galactic quadrant, three arm-like structures exist in this region. The Carina arm ($l \sim 290^\circ$) is very clear. The other two arm-like structures correspond to the Crux ($l \sim 318^\circ$) and the Norma arm ($l \sim 333^\circ$), respectively. In the first quadrant, both HII regions and GMCs also seem to show three arm-like structures, the Sagittarius arm in the middle ($l \sim 40^\circ$), the Scutum arm inside ($l \sim 25^\circ$) as well as the Perseus arm on the outer side ($x \sim 8$ kpc, $l \sim 60^\circ$). These arms are clear in Watson et al. (2003) and Sewilo et al. (2004) from HII region distributions and in Solomon et al. (1987) from the distribution of molecular clouds. There may be another arm-like segment in the far outer Galaxy traced by GMCs. In the second and third Galactic quadrants, no obvious structure can be identified from the distribution of the main tracers.

In Fig. 4, we overlay our data onto the HI map of Levine et al. (2006), which was obtained with the solar parameters of $R_0 = 8.5$ kpc, $\Theta_0 = 220$ km s $^{-1}$. In the HI distribution, there are 3 obvious arm-like structures in the third and fourth quadrants. The Carina arm overlaps with the most inner arm-like structure in the HI distribution, and the Perseus arm may be linked to the intermediate arm-like structure, which can be matched in

our 3-arm, 4-arm, and polynomial logarithmic arm models. The counterpart for the outer arm-like structure in the HI map is difficult to identify, but most likely there are one or two spiral arms beyond the Perseus arm.

It is not clear whether the spiral structure of the Milky Way is of logarithmic nature. Canonically, the two, three or four logarithmic arms have been used to fit the tracer data and to model the grand design of our Galaxy. We will try to fit these conventional models to the data, and we also present the polynomial logarithmic arm model with varying pitch angle. In addition to fitting the model to the tracer distribution, it is important to compare the tangential directions of modelled spiral arms to the observed tangents (see Englmaier & Gerhard 1999; Bronfman 1992; Vallée 2008).

In Sect. 3.3, we also show the distribution of tracers for spiral arms by taking the kinematic distances estimated by using the rotation curves with two sets of solar parameters, $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$ and the recent determination of $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s $^{-1}$ from Reid et al. (2009).

3.1. The logarithmic arm models

The logarithmic-arm model describes the i th spiral arm with:

$$\ln \frac{r}{R_i} = (\theta - \theta_i) \tan \psi_i. \quad (5)$$

Here, r , θ are the polar coordinates centered at the Galactic center, R_i is the initial radius (in kpc) at the start azimuthal angle θ_i for the i th arm, and ψ_i is the pitch angle of the arm. The θ starts at the positive x -axis and increases counterclockwise. We consider the expression:

$$Z = \frac{1}{\sum B_i} \sum B_i \sqrt{(x_i - x_t)^2 w_{x_i}^2 + (y_i - y_t)^2 w_{y_i}^2} \quad (6)$$

for all tracers; here x_i and y_i are Cartesian coordinates of the tracer, x_t and y_t are the coordinates of the nearest point from all spiral arms to the tracer. w_{x_i} and w_{y_i} are weighting factors for the location uncertainty of x_i and y_i , respectively, and B_i is the weighting factor related to the excitation parameters of HII regions or the masses of GMCs. The best spiral arm model should be able to minimize the parameter Z .

We assume that each arm always has its own pitch angle in the 2-, 3-, 4-arm models and fit them to the data (see also Naoz & Shaviv 2007). By searching for the best parameters of each arm, R_i , θ_i and ψ_i in reasonable ranges, to find the minimized Z , we obtained the best spiral arm models as listed in Table 1. Three best-fitting models together with the data are plotted in Fig. 5. The tangential directions of arms in all models are listed in Table 2.

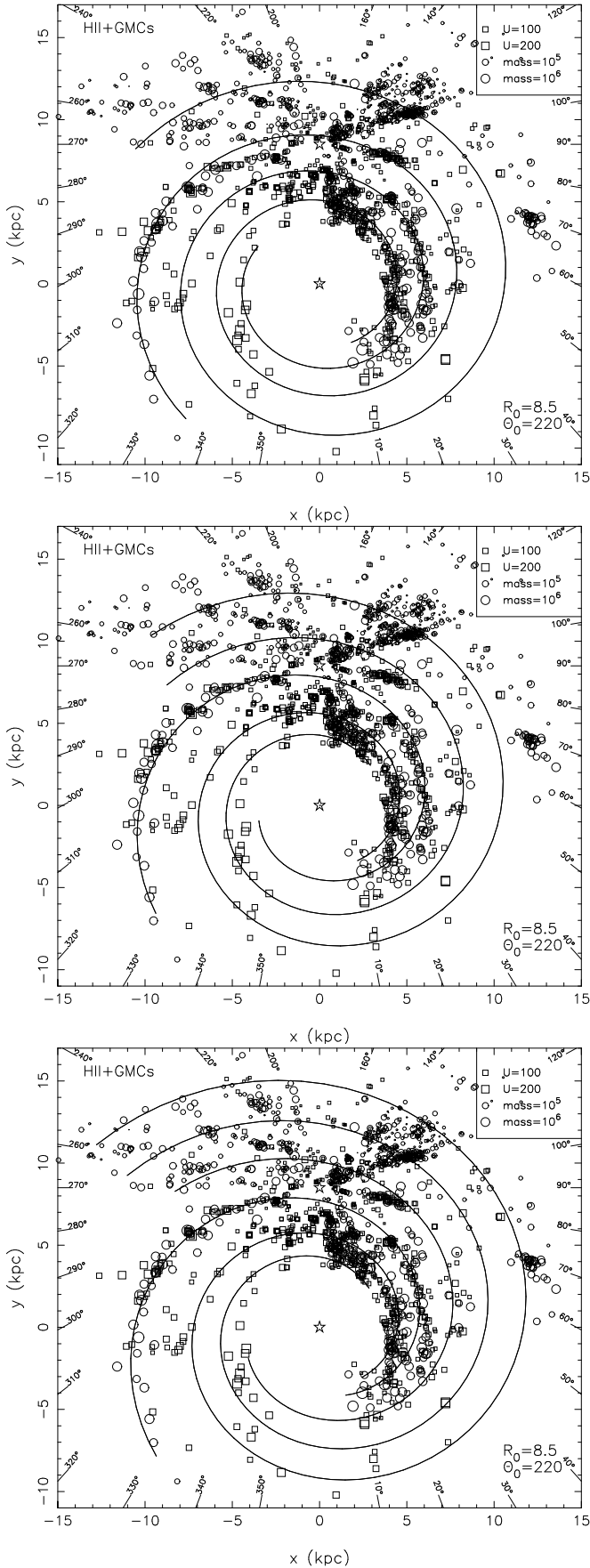


Fig. 5. The distribution of HII regions and GMCs ($R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$) and the best-fitting two-arm model (top panel), three-arm model (middle panel) and four-arm model (bottom panel).

The best fitting two-arm logarithmic model places the Sun in the Carina arm, and it also connects the Local arm and the Perseus arm with the Carina arm, which is inconsistent with observations. In fact, the connection of the Sagittarius arm and the Carina arm as a single arm has been well established from observations. Such a connection cannot be obtained in any two-arm model, as found by R03. In addition, the tangential directions calculated from this model are also very different from observed values. The parameter Z is slightly larger than that of the 3- and 4-arm models. The best two-arm logarithmic model can be excluded, conclusively.

In the best fitting 3-arm and 4-arm models, the Sagittarius arm and the Carina arm are connected and look very similar. The Scutum arm in the 1st Galactic quadrant outlined by HII regions and molecular clouds is connected to the Crux arm in the 4th Galactic quadrant. This arm is well fitted by both the 3-arm and the 4-arm models. However, the obvious difference arises from the extension of the Crux arm. It connects to the Perseus+1 arm in the 3-arm model, but to the Perseus+2 arm in the 4-arm model. It is not clear from current available data whether there is one arm or two arms in the few kpc outside the Perseus arm. Conservatively, the 3-arm model predicts only one Perseus+1 arm and no Perseus+2 arm, which may be more realistic. However, [Levine et al. \(2006\)](#) showed that the HI gas distribution indicates that both the Perseus+1 arm and Perseus+2 arm are possible. The molecular clouds at $l \sim 70^\circ$ at 13 kpc ([Digel et al. 1990](#)) may be related to the Perseus+2 arm. In the GC direction, the Norma arm is connected to the Perseus arm in the 3-arm model. In the 4-arm model, the Norma arm is connected to the Perseus+1 arm, and the Perseus arm starts from another arm inside the Norma arm, corresponding to the Norma-Cygnus arm in the four-arm model of R03.

The tangential directions of arms in models are listed in Table 2 for comparison with observations. The double values of the Scutum tangent correspond to both the Scutum arm and another interior arm segment, which can be well fitted in our 3-arm and 4-arm models. However an obvious deviation is seen from the tangent of the actual Scutum arm ($l \sim 31^\circ$ vs. $l \sim 36^\circ$). The tangent of the Sagittarius arm always deviates from observed values by 7° or 4° in the 3-arm or the 4-arm model. The tangent of the Norma arm differs by 4° in the 4-arm models.

3.2. The polynomial logarithmic arm model

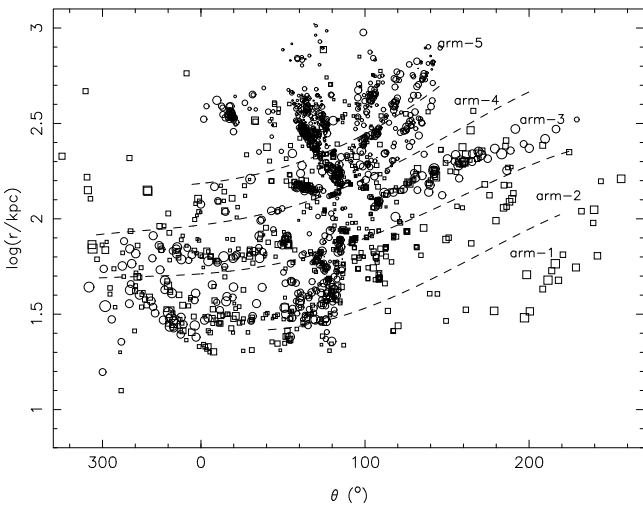
Note that these spiral arm models are assumed to be purely logarithmic. However, the pitch angle of spiral arms can vary along the arm (see e.g. [Seigar & James 1998](#)). If so, a polynomial logarithmic arm model may be necessary to fit both the distribution and tangential directions.

We first plotted the tracer data in the $\log(r) - \theta$ diagram (see Fig. 6), and roughly identified arm-like features and then separated the data by the dashed-lines. The Sagittarius-Carina arm is very prominent in the plot, which obviously separated in the tracer data from the other groups. The Scutum-Crux arm are also well-isolated in the tracer data, except for those at small r where the data are mixed with those from the Sagittarius arm. The innermost arm seems clearly to have a group of tracers, which in fact is the Norma arm and connected to the Scutum arm. However, outside the Sagittarius-Carina arm, the data are well mixed, and one can barely distinguish the Perseus arm and the Perseus+1 arm, which can only be separated manually in a very rough manner.

The best model should satisfy the observed tangential directions and also minimize the parameter Z . We separate our total

Table 2. Tangential directions from observations (Bronfman 1992; Englmaier & Gerhard 1999) and the best fitting models.

Model	Scutum (°)	Sagittarius (°)	Carina (°)	Crux (°)	Norma (°)	3-kpc (°)
observed mean value	25, 31	51	284	310	327	339
For distribution of tracers with $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$						
2-arm model	33	49		301	319	330
3-arm model	26, 36	58	284	313	325	
4-arm model	25, 36	55	283	311	323	
polynomial model	27, 33	53	284	309	329	
For distribution of tracers with $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$						
2-arm model	33	49		303	320	330
3-arm model	26, 38	59	282	311	324	
4-arm model	26, 37	55	284	310	322	
polynomial model	27, 34	53	284	309	329	
For distribution of tracers with $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s $^{-1}$						
polynomial model	27, 33	53	284	309	329	

**Fig. 6.** The distribution of tracer data ($R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$) plotted in the $\log(r)$ - θ diagram. Here θ starts at the positive x -axis and increase counterclockwise. The dash lines roughly separate main arm tracers.

sample into several sub-samples for five arms (see Fig. 6), and fit them separately with the polynomial logarithmic arm model:

$$\ln r = a_i + b_i\theta + c_i\theta^2 + d_i\theta^3 \quad (7)$$

to obtain the initial values of each arm, and finally we fit all arms together to the whole sample of data. After using the weighting factors, and minimizing the residual value by Eq. (6), we obtained the best model with the fitting parameters listed in Table 3. The data and arms are plotted in Fig. 7. The tangential directions of this model are also listed in Table 2.

In this model, almost all tracers are best connected with the outlined spiral arms. Compared to the pure logarithmic models, the polynomial logarithmic arm model is more conservative in connecting known tracers. It does not outline the possible arm trajectory in the regions without tracers and predict the possible connection between the outer arms and inner arms. As seen in Fig. 7, the main spiral structures are well traced. From the center we find arm-1 to arm-5, which correspond to the Norma arm, the Scutum-Crux arm, the Sagittarius-Carina arm, the Perseus arm and the Perseus+1 arm. Looking at the HI data in Fig. 4, one may see that arm-5, i.e. the Perseus+1 arm, seems to be connected to the obvious outer HI arm outlined by

Table 3. The parameters of the polynomial logarithmic arm model.

i th arm	a_i	b_i	c_i	d_i	θ_i (°)
For distribution with $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$					
arm-1	1.376	-0.07792	0.04309	0	41
arm-2	7.330	-2.302	0.2849	-0.01059	304
arm-3	10.403	-3.526	0.4620	-0.01895	298
arm-4	1.978	-0.1181	0.02098	0	338
arm-5	2.297	0.09116	0.04273	0	35
Z	0.31				
For distribution with $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$					
arm-1	1.302	-0.06629	0.04115	0	47
arm-2	7.5616	-2.448	0.3090	-0.01187	304
arm-3	9.9843	-3.417	0.4522	-0.01873	298
arm-4	1.5189	-0.00581	0.01286	0	338
arm-5	2.1949	0.1037	0.03317	0	35
Z	0.26				
For distribution with $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s $^{-1}$					
arm-1	1.3747	-0.0737	0.04318	0	41
arm-2	11.2880	-3.8678	0.4900	-0.01949	304
arm-3	10.2992	-3.519	0.4662	-0.01937	298
arm-4	1.5645	-0.005055	0.0132	0	338
arm-5	2.2973	0.004478	0.0750	0	55
Z	0.29				

Levine et al. (2006) at the both ends at about $(x, y) = (-12$ kpc, $+12$ kpc) and $(+8$ kpc, $+10$ kpc). The Perseus arm is probably connected to the long HI arm at $(-12$ kpc, $+3$ kpc). The tangential directions of this model (Table 2) are more consistent with the observed values than those from the logarithmic arm model. We conclude that such a polynomial arm model is a better description of the observed arm features.

The pitch angles of spiral arms vary in the form of $\tan(\psi_i) = b_i + 2c_i\theta + 3d_i\theta^2$, in contrast to the constant pitch angles for the pure logarithmic arms. The pitch angles vary with azimuthal angle, as shown in Fig. 8. Variable pitch angles have been found in nearby galaxies. For example, Puerari & Dottori (1992) used a simple model with a variable pitch angle to obtain the leading or trailing character of the arms of some galaxies. Note, however, that the innermost segments of arm-2 ($l < \sim 25^\circ$) and arm-3 ($l < \sim 35^\circ$), probably due to the distance uncertainty of tracers, show unreasonable negative pitch angles in Fig. 8, similar to the possible outer HI arm ($x \sim 10$ kpc) in the 1st quadrant as shown in Fig. 4. This is obtained from tracer data, which thus needs to be resolved.

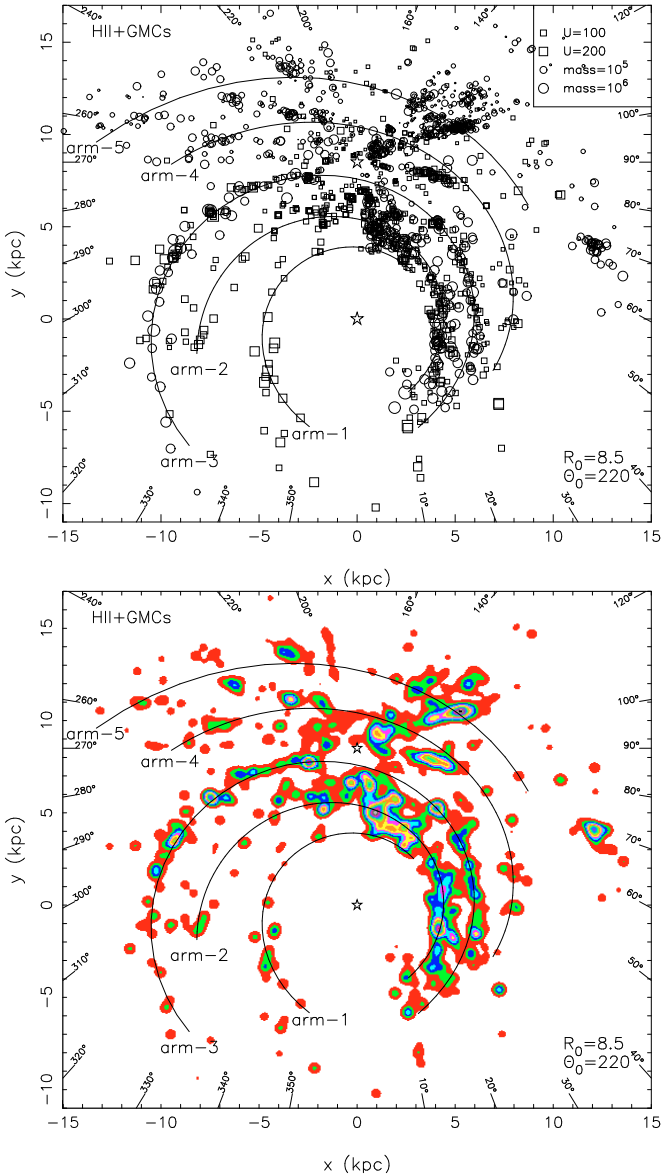


Fig. 7. The best-fitting polynomial logarithmic-arm model ($R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$), plotted onto the data distribution (*top panel*) and the color brightened-tracer image (*bottom panel*) of tracers. Almost all main tracers are connected by the outlined arms, except for one complex at $(x, y) = (12$ kpc, 4 kpc) which either has an overestimated distance or it belongs to another outer arm.

3.3. The influence of the solar parameters R_0 and Θ_0

We also have re-estimated the distances of HII regions and GMCs, if not available from other measurements, by using the rotation curve for $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$. Then the excitation parameters of HII regions and the masses of GMCs are accordingly recalculated, as listed in Tables A.1 and A.2. The final distribution of the tracers is shown in Fig. 9. The overall design is similar to that of $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$. We also fit the distribution with two, three, and four spiral-arm models, and the parameter values from the best models are listed in Table 1. The best fit of a polynomial logarithmic arm model for a spiral structure is presented in Fig. 9, and the parameters are listed in Table 3. The number of arms and arm structure are conserved. As occurred for the case of 8.5/220, the tangential

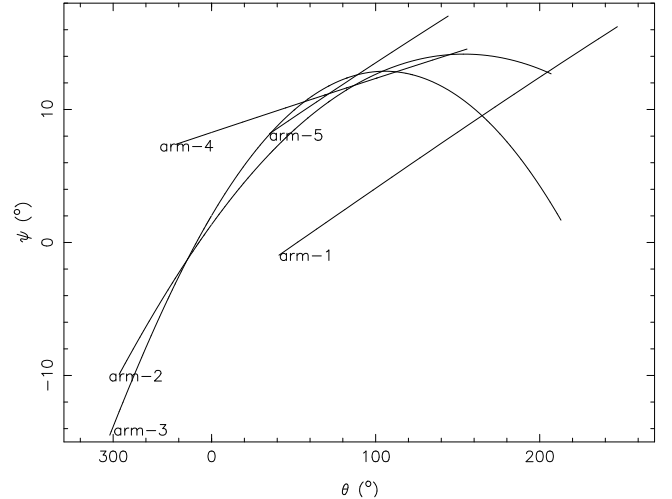


Fig. 8. The pitch angle (ψ) variation of spiral arms in the accepted polynomial logarithmic-arm model (with $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$).

directions are better reproduced by the polynomial model than the logarithmic spiral arm models.

Reid et al. (2009) used the newly measured trigonometric parallaxes of masers to estimate the solar parameters, and concluded that $R_0 = 8.4 \pm 0.6$ kpc and $\Theta_0 = 254 \pm 16$ km s $^{-1}$. They offer a revised prescription (and a Fortran code) to calculate kinematic distances and their uncertainties (see Reid et al. 2009, for details). Using the code they kindly provided to us, we determined the kinematic distances and re-scaled other parameters of our HII regions and GMC samples. Their distribution and the best-fitted polynomial logarithmic-arm model is shown in Fig. 10. Compared with the distribution with $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$, the tracers are nearer to our sun in the second and third Galactic quadrants, so that arms in this region are wound more tightly. The local arm becomes clearer, but the separation between the Perseus arm and Perseus+1 becomes less clear. The grand design of spiral arms in the other parts of the Galaxy looks very similar to that of 8.0/220.

4. Conclusions and remarks

We collected the spiral tracer data of HII regions and giant molecular clouds (GMCs) published in the literature, and used them to study the weighted distribution of these tracers for the overall design of spiral arms of our Milky Way Galaxy. The mass of the GMC and the excitation parameter of an HII region are scaled as the weighting factors. The distances of tracers, if not available from stellar or triangulation measurements, were estimated kinetically using the rotation curve of BB93 with solar constants of $R_0 = 8.5$ kpc and $\Theta_0 = 220$ km s $^{-1}$. We fitted the distribution of these tracers with two, three, and four logarithmic spiral arm models. None of the models can match all the main arm features observed. We finally fit the tracer data by using a polynomial logarithmic arm model, which not only can fit the distribution of tracers for the main spiral arms, but also match the tangential directions with the observations. The polynomial model appears to be better able to describe the spiral arms of our Galaxy. When the kinematic distances are estimated by using rotation curves with two sets of parameters, $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$ and $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s $^{-1}$, the distribution of HII regions and GMCs are slightly better fitted by the models, though the parameters do not change significantly.

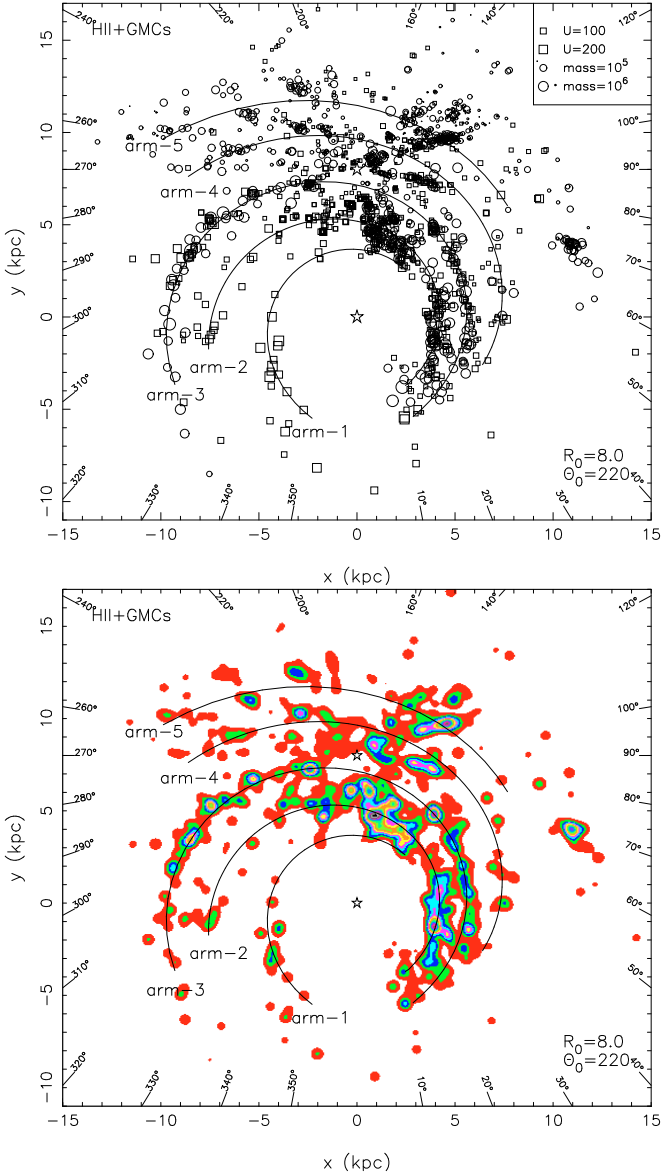


Fig. 9. The best-fitting polynomial logarithmic-arm model for $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$, plotted on the data distribution (*top panel*) and the color brightened-tracer image (*bottom panel*) of tracers.

For most of tracers in our work, we use their kinematic distances derived from the rotation curves. Gómez (2006) found that the error bars are significantly large for objects at the positions of spiral arms. This pitfall cannot be overcome until accurate distances of a large sample of HII regions are measured, e.g. by triangulation of radio masers (e.g. Xu et al. 2006; Reid et al. 2009). A large project is being carried out with the VLBA to directly measure distances of a large sample of massive star formation regions by trigonometric parallaxes (see Reid et al. 2008) with accuracies approaching $\sim 10 \mu\text{as}$. Published results of several examples show systematically smaller distances than the kinematic distances. They will probably obtain hundreds of measurements over 10 years for the brightest HII regions covering all the Galactic disk, and the final grand design of our Milky Way will be greatly improved. However, at present, the picture shown in Fig. 10 is the best approximate description of Galactic spiral structure.

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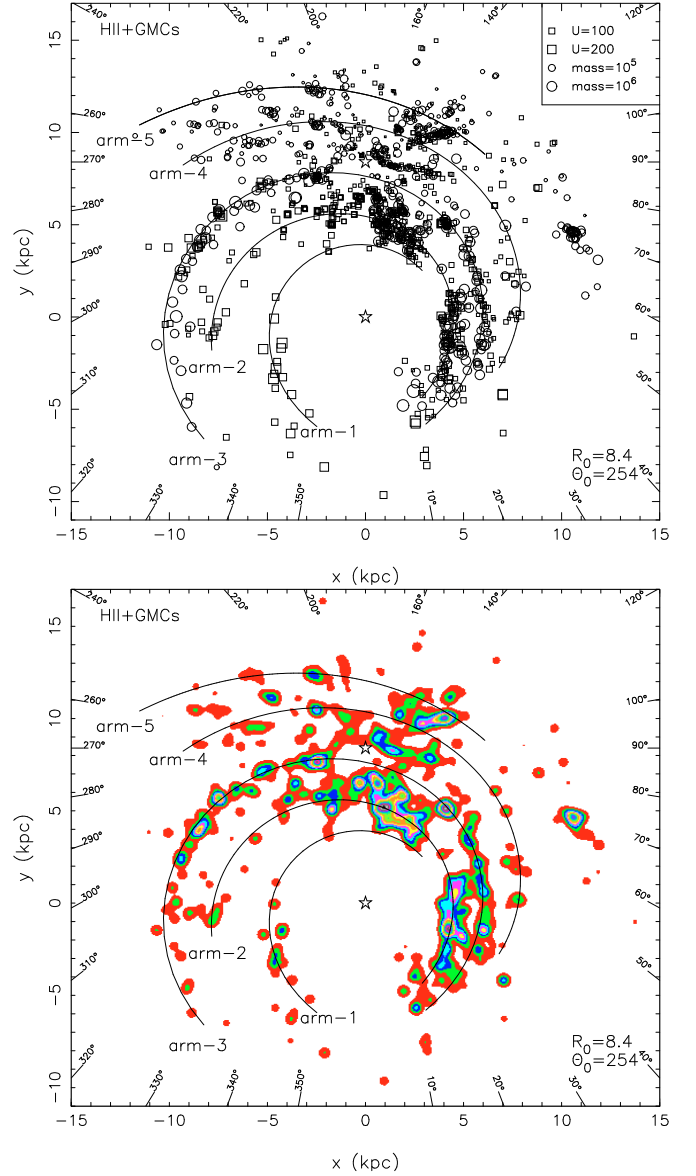


Fig. 10. The same as Fig. 9 but with the rotation curve from Reid et al. (2009) with $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s $^{-1}$.

distances using their newly determined rotation curves. The authors are supported by the National Natural Science Foundation (NNSF) of China (10773016, 10821061 and 10833003) and the National Key Basic Research Science Foundation of China (2007CB815403).

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Appendix A: Tracer data for spiral structure

We collected and calculated the related parameters of HII regions and giant molecular clouds (GMCs) based on the observations in the literature, and present them here in two tables.

Table A.1. HII regions as tracers of spiral arms. Columns 1 to 3 list the Galactic longitude, Galactic latitude and velocity, taken from the reference given in Col. 4; Cols. 5 to 7 give the radio continuum flux of the HII region, observation frequency and the reference. Columns 8 to 10 give the stellar distance when available, as well as the error and the reference; Col. 11 is a note for the distance ambiguity and Col. 12 is its reference: Knear – the nearer kinematic distance is adopted; Kfar – the farther kinematic distance is adopted; Ktan – the tracer is located at the tangential point and the distance to the tangent is adopted; Kout – the object is in the outer Galaxy and only one kinematic distance is available and adopted; Cols. 13 and 14 give the kinematic distance to the Sun and distance to the Galactic Center estimated with a rotation curve with $R_0 = 8.5$ kpc, $\Theta_0 = 220$ km s $^{-1}$; Col. 15 contains the excitation parameter rescaled by the distance we adopted; Cols. 16 to 18 are the same as Cols. 13–15 but with constants $R_0 = 8.0$ kpc and $\Theta_0 = 220$ km s $^{-1}$ for kinematic distances. Columns 19 to 21 are the same as Cols. 13–15 but with constants $R_0 = 8.4$ kpc and $\Theta_0 = 254$ km s $^{-1}$ for kinematic distances.

l	b	V_{lsr}	Ref.	S	Freq	Ref.	d	d_{erro}	Ref.	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$U_{8.5}$	$D_{8.0}$	$R_{8.0}$	$U_{8.0}$	$D_{8.4}$	$R_{8.4}$	$U_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s $^{-1}$	(4)	Jy	GHz	(7)	kpc	kpc	(10)	(11)	(12)	kpc	kpc	pc cm $^{-2}$	kpc	kpc	pc cm $^{-2}$	kpc	kpc	pc cm $^{-2}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
2.40	1.40	3.0	pbd+03	3.00	2.70	pbd+03	4.7	1.4	rus03					54.7			54.7			54.7
2.90	-0.00	-1.7	pbd+03	3.40	2.70	pbd+03				kout	hh09	18.7	10.3	143.3	17.4	9.4	136.6	18.2	9.7	140.7
4.30	0.60	6.6	rus03				1.3	0.4	rus03					28.0			28.0			28.0
6.00	-1.30	2.8	pbd+03	44.90	2.70	pbd+03	1.6	0.25	rus03					65.8			65.8			65.8
6.00	-1.20	3.6	pbd+03	113.40	2.70	pbd+03	1.6	0.25	rus03					89.5			89.5			89.5
6.20	-1.20	3.0	pbd+03	2.10	2.70	pbd+03	1.6	0.25	rus03					23.7			23.7			23.7
6.40	-0.50	19.0	pbd+03	4.00	2.70	pbd+03				knear	pdd04	3.8	4.8	52.3	3.5	4.5	49.5	3.6	5.0	50.4
6.50	0.10	14.1	pbd+03	0.50	2.70	pbd+03				knear	pdd04	3.1	5.4	22.8	2.9	5.1	21.8	2.9	5.6	21.8
6.60	-0.30	16.1	pbd+03	54.00	2.70	pbd+03				knear	pdd04	3.4	5.2	115.6	3.1	4.9	108.7	3.2	5.4	111.0
6.60	-0.10	13.4	pbd+03	11.10	2.70	pbd+03				knear	pdd04	3.0	5.5	62.7	2.8	5.2	59.9	2.8	5.7	59.9
6.70	-0.20	19.4	pbd+03	7.60	2.70	pbd+03				knear	pdd04	3.7	4.8	63.6	3.5	4.6	61.3	3.5	5.0	61.3
6.90	-2.10	5.4	pbd+03	15.40	2.70	pbd+03	1.6	0.25	rus03					46.0			46.0			46.0
7.00	-0.20	14.3	pbd+03	15.00	2.70	pbd+03	2.7	0.8	rus03	knear	pdd04	3.0	5.5	64.7			64.7			64.7
7.30	-0.10	17.9	pbd+03	1.70	2.70	pbd+03	2.7	0.8	rus03					31.3			31.3			31.3
8.40	-0.30	37.9	pbd+03	2.60	2.70	pbd+03				knear	pdd04	4.8	3.8	52.9	4.4	3.7	49.9	4.5	4.1	50.7
8.70	-0.40	41.8	pbd+03	1.80	2.70	pbd+03				knear	pdd04	4.9	3.7	47.5	4.6	3.5	45.5	4.7	4.0	46.2
8.70	-0.50	15.0	rus03				1.7	0.5	rus03											
10.16	-0.35	12.5	swa+04	25.50	4.86	swa+04				kfar	swa+04	14.6	6.4	242.5	13.8	6.1	233.6	14.5	6.3	241.4
10.20	-0.30	13.6	pbd+03	55.90	2.70	pbd+03				kfar	gg76	14.5	6.3	307.5	13.6	5.9	294.6	14.4	6.2	306.1
10.31	-0.15	9.4	swa+04	8.70	4.86	swa+04	3.4	0.3	bdc01	knear	pmg08	1.6	6.9	64.1			64.1			64.1
10.46	0.03	70.2	swa+04	1.07	4.86	swa+04				kfar	swa+04	10.9	3.0	69.3	10.4	2.9	67.2	11.1	3.1	70.1
10.60	-0.40	0.2	pbd+03	10.50	2.70	pbd+03				kout	hh09	16.8	8.6	194.2				16.3	8.1	190.3
10.70	-0.50	-2.4	pbd+03	2.50	2.70	pbd+03				kout	hh09	17.4	9.2	123.2	16.2	8.5	117.5	16.8	8.6	120.4
10.96	0.02	17.7	swa+04	0.98	4.86	swa+04				kfar	swa+04	14.1	6.0	79.9	13.3	5.6	76.8	14.0	5.9	79.5
11.11	-0.40	2.1	swa+04	0.69	4.86	swa+04				kfar	swa+04	16.4	8.2	78.7	15.3	7.6	75.1	16.0	7.8	77.4
11.50	-1.00	12.0	rus03	3.20	2.70	pbd+03	1.6	0.2	rus03	knear	pdd04	2.5	6.0	27.3			27.3			27.3
11.93	-0.61	40.3	swa+04	1.64	4.86	swa+04				knear	swa+04	4.2	4.5	42.3	3.9	4.2	40.3	4.0	4.7	40.9
11.99	-0.27	58.2	pmg08	0.07	1.40	cgg+98				kfar	pmg08	11.5	3.7	27.8	10.9	3.5	26.8	11.6	3.8	28.0
12.40	-0.00	-18.4	pbd+03	0.80	2.70	pbd+03				kout	hh09	22.6	14.4	100.3	20.8	13.1	94.9	20.9	12.7	95.2
12.40	-1.10	41.0	pbd+03	1.00	2.70	pbd+03				knear	pdd04	4.2	4.5	35.2	3.9	4.3	33.5	4.0	4.7	34.1
12.41	0.51	34.1	swa+04	0.11	4.86	swa+04				knear	swa+04	3.7	4.9	15.8	3.5	4.7	15.2	3.5	5.1	15.2
12.63	-0.02	33.5	swa+04	0.50	4.86	swa+04				kfar	swa+04	12.9	5.0	60.2	12.2	4.7	58.0	12.9	5.0	60.2
12.68	-0.18	57.4	pmg08	0.32	1.40	cgg+98				knear	pmg08	5.0	3.8	26.5	4.6	3.7	25.1	4.7	4.1	25.4
12.78	0.33	15.8	swa+04	0.37	4.86	swa+04				kfar	swa+04	14.5	6.4	58.9	13.6	6.0	56.4	14.3	6.3	58.4
12.80	-0.20	36.0	pbd+03	41.70	2.70	pbd+03				knear	gg76	3.8	4.9	114.2	3.6	4.6	110.2	3.6	5.1	110.2
12.80	0.40	20.7	pbd+03	4.10	2.70	pbd+03	2.4	0.2	rus03					38.8			38.8			38.8
12.91	-0.26	31.7	swa+04	1.06	4.86	swa+04				kfar	swa+04	13.1	5.1	78.1	12.3	4.9	74.9	13.1	5.1	78.1
13.13	-0.15	40.6	swa+04	0.24	4.86	swa+04				kfar	swa+04	12.5	4.7	46.2	11.8	4.4	44.5	12.5	4.7	46.2
13.20	0.00	55.1	pbd+03	7.00	2.70	pbd+03				knear	gg76	4.8	4.0	73.6	4.4	3.8	69.5	4.5	4.2	70.5
13.40	0.10	18.3	pbd+03	10.20	2.70	pbd+03				kfar	pdd04	14.2	6.3	172.0	13.4	5.9	165.5	14.1	6.2	171.2
13.50	-0.20	11.3	pbd+03	0.60	2.70	pbd+03	1.6	0.25	rus03					15.6			15.6			15.6
13.80	-0.80	23.9	pbd+03	14.20	2.70	pbd+03	1.6	0.25	rus03					44.8			44.8			44.8
13.88	0.28	51.0	swa+04	4.15	4.86	swa+04				knear	swa+04	4.5	4.3	60.4	4.2	4.1	57.7	4.2	4.5	57.7
14.00	-0.10	35.7	pbd+03	3.40	2.70	pbd+03				knear	pdd04	3.6	5.1	47.8	3.4	4.8	46.0	3.4	5.2	46.0
14.09	0.10	16.3	pmg08	0.11	1.40	cgg+98				kfar	pmg08	14.5	6.6	37.7	13.6	6.1	36.1	14.3	6.4	37.4
14.10	-0.50	20.6	pbd+03	1.70	2.70	pbd+03	1.6	0.25	rus03					22.1			22.1			22.1
14.20	-0.20	36.9	pbd+03	28.80	2.70	pbd+03				knear	pdd04	3.7	5.0	99.2	3.4	4.8	93.8	3.5	5.2	95.6
14.20	-0.10	36.1	pbd+03	1.90	2.70	pbd+03				knear	pdd04	3.6	5.1	39.3	3.4	4.8	37.8	3.4	5.2	37.8
14.33	-0.64	27.6	swa+04	0.39	4.86	swa+04				knear	swa+04	3.0	5.6	21.0	2.8	5.3	20.1	2.9	5.8	20.5
14.40	-0.70	11.9	pbd+03	2.90	2.70	pbd+03	1.6	0.25	rus03	knear	pdd04	1.5	7.0	26.4			26.4			26.4
14.60	0.00	34.9	pbd+03	40.00	2.70	pbd+03				knear	pdd04	3.5	5.2	106.6	3.3	4.9	102.5	3.3	5.4	102.5
14.60	0.10	37.3	pbd+03	32.00	2.70	pbd+03				knear	pdd04	3.6	5.0	100.8	3.4	4.8	97.0	3.5	5.2	98.9
14.68	-0.50	27.5	swa+04	0.49	4.86	swa+04				kfar	swa+04	13.5	5.7	61.6	12.7	5.4	59.1	13.4	5.6	61.3
15.00	-0.70	13.9	pbd+03	489.00	2.70	pbd+03	1.6	0.25	rus03	knear	pdd04	1.7	6.9	145.7			145.7			145.7

Table A.1. continued.

l	b	V_{lsr}	Ref.	S	Freq	Ref.	d	d_{erro}	Ref.	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$U_{8.5}$	$D_{8.0}$	$R_{8.0}$	$U_{8.0}$	$D_{8.4}$	$R_{8.4}$	$U_{8.4}$
(°)	(°)	km s ⁻¹	(4)	Jy	GHz	(7)	kpc	kpc	(10)	(11)	(12)	kpc	kpc	pc cm ⁻²	kpc	kpc	pc cm ⁻²	kpc	kpc	pc cm ⁻²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
15.10	-0.90	13.8	pbd+03	4.20	2.70	pbd+03	1.6	0.25	rus03	knear	pdd04	1.7	6.9	29.8			29.8			29.8
15.10	-0.70	19.1	pbd+03	552.00	2.70	pbd+03	1.6	0.25	rus03	knear	pdd04	2.2	6.4	151.8			151.8			151.8
15.20	-0.60	13.9	pbd+03	5.60	2.70	pbd+03	1.6	0.25	rus03	knear	pdd04	1.7	6.9	32.9			32.9			32.9
15.20	-0.80	23.7	pbd+03	7.10	2.70	pbd+03	1.6	0.25	rus03	knear	pdd04	2.6	6.0	35.6			35.6			35.6
15.20	1.50	17.5	rus03				2.8	0.6	rus03					50.0			50.0			50.0
15.64	-0.24	61.8	ab09	0.52	4.85	PMN				kfar	ab09	11.6	4.1	56.8	11.0	3.9	54.8	11.7	4.2	57.1
16.30	-0.20	49.5	pbd+03	14.00	2.70	pbd+03	4.0	0.6	rus03	knear	ab09	4.1	4.7	82.1			82.1			82.1
16.40	-0.50	42.7	pbd+03	8.10	2.70	pbd+03	4.0	0.6	rus03					68.4			68.4			68.4
16.40	-0.20	44.5	pbd+03	6.00	2.70	pbd+03	4.0	0.6	rus03	knear	ab09	3.9	4.9	61.9			61.9			61.9
16.58	-0.05	34.7	swa+04	0.28	4.86	swa+04				kfar	swa+04	13.0	5.5	49.9	12.3	5.2	48.1	13.0	5.4	49.9
16.60	-0.30	44.9	pbd+03	2.30	2.70	pbd+03	4.0	0.6	rus03					45.0			45.0			45.0
16.90	-1.10		pbd+03	1.30	2.70	pbd+03	1.6	0.25	rus03					20.2			20.2			20.2
16.90	0.80	26.3	pbd+03	169.00	2.70	pbd+03	2.0	0.25	rus03	knear	pdd04	2.6	6.0	118.7			118.7			118.7
17.00	0.80	24.5	pbd+03	107.00	2.70	pbd+03	2.0	0.25	rus03	knear	pdd04	2.5	6.2	101.9			101.9			101.9
17.00	0.90	26.4	pbd+03	21.10	2.70	pbd+03	2.0	0.25	rus03	knear	pdd04	2.6	6.0	59.3			59.3			59.3
17.10	0.80	27.4	pbd+03	8.80	2.70	pbd+03	2.0	0.25	rus03					44.3			44.3			44.3
17.64	0.15	25.2	swa+04	0.29	4.86	swa+04				kfar	swa+04	13.7	6.2	52.3	12.9	5.8	50.2	13.6	6.1	52.0
18.10	-0.30	53.8	pbd+03	5.80	2.70	pbd+03				knear	pdd04	4.2	4.7	63.2	3.9	4.5	60.2	3.9	4.9	60.2
18.20	-0.18	46.1	ab09	2.60	2.70	pbd+03				kfar	ab09	12.4	5.1	99.6	11.7	4.8	95.8	12.4	5.1	99.6
18.20	-0.40	43.3	pbd+03	3.10	2.70	pbd+03				knear	pdd04	3.6	5.2	46.3	3.4	4.9	44.6	3.4	5.4	44.6
18.20	-0.30	47.0	pbd+03	27.00	2.70	pbd+03				knear	pdd04	3.8	5.0	98.8	3.6	4.8	95.3	3.6	5.2	95.3
18.30	-0.40	30.5	pbd+03	1.70	2.70	pbd+03				knear	pdd04	2.8	5.9	32.1	2.6	5.6	30.6	2.7	6.0	31.3
18.30	-0.30	50.7	pbd+03	5.40	2.70	pbd+03				knear	pdd04	4.0	4.9	59.8	3.7	4.6	56.8	3.8	5.1	57.8
18.30	1.90	29.9	pbd+03	5.90	2.70	pbd+03	2.0	0.2	rus03	knear	pdd04	2.8	5.9	38.8			38.8			38.8
18.46	-0.00	56.5	swa+04	0.77	4.86	swa+04				kfar	swa+04	11.9	4.7	65.9	11.2	4.4	63.3	11.9	4.7	65.9
18.60	-0.30	71.1	pbd+03	2.40	2.70	pbd+03	3.4	1.0	rus03					40.9			40.9			40.9
18.66	-0.06	44.1	swa+04	0.43	4.86	swa+04				kfar	swa+04	12.5	5.2	56.1	11.8	4.9	54.0	12.5	5.2	56.1
18.70	2.00	26.6	pbd+03	88.00	2.70	pbd+03	2.0	0.2	rus03	knear	pdd04	2.5	6.2	95.5			95.5			95.5
18.90	-0.50	65.5	pbd+03	15.70	2.70	pbd+03	3.4	1.0	rus03	knear	pdd04	4.6	4.4	76.6			76.6			76.6
18.90	-0.40	68.0	pbd+03	18.50	2.70	pbd+03	3.4	1.0	rus03	knear	pdd04	4.7	4.3	80.9			80.9			80.9
18.95	-0.02	52.3	ab09	2.16	4.85	PMN	3.4	1.0	rus03	knear	ab09	4.0	4.9	40.3			40.3			40.3
19.00	-0.00	48.7	pbd+03	2.60	2.70	pbd+03	3.4	1.0	rus03	knear	pdd04	3.8	5.0	42.0			42.0			42.0
19.00	-0.40	65.8	pbd+03	7.10	2.70	pbd+03	3.4	1.0	rus03	knear	ab09	4.6	4.4	58.8			58.8			58.8
19.00	-0.60	68.2	pbd+03	2.00	2.70	pbd+03	3.4	1.0	rus03	knear	ab09	4.7	4.3	38.5			38.5			38.5
19.07	-0.28	64.2	swa+04	3.40	4.86	swa+04	3.4	1.0	rus03	knear	swa+04	4.6	4.4	46.9			46.9			46.9
19.10	-0.30	66.5	pbd+03	25.00	2.70	pbd+03	3.4	1.0	rus03	knear	pdd04	4.7	4.4	89.4			89.4			89.4
19.12	-0.34	63.5	swa+04	1.35	4.86	swa+04	3.4	1.0	rus03	knear	swa+04	4.5	4.5	34.5			34.5			34.5
19.36	-0.02	51.1	swa+04	0.33	4.86	swa+04				kfar	swa+04	12.1	5.0	50.2	11.4	4.7	48.2	12.1	5.0	50.2
19.50	0.10	19.9	pbd+03	3.50	2.70	pbd+03	2.0	0.2	rus03					32.6			32.6			32.6
19.60	-0.90	38.7	swa+04	0.37	4.86	swa+04				kfar	swa+04	12.8	5.6	54.2	12.0	5.3	51.9	12.8	5.5	54.2
19.61	-0.13	58.6	ab09	4.20	2.70	pbd+03				kfar	ab09	11.7	4.7	112.4	11.1	4.5	108.5	11.8	4.7	113.0
19.61	-0.23	41.0	kjb+03	13.00	2.70	pbd+03				kfar	kjb+03	12.7	5.4	173.1	11.9	5.1	165.8	12.6	5.4	172.2
19.68	-0.13	55.0	kjb+03	2.60	2.70	pbd+03				kfar	kjb+03	11.9	4.8	96.9	11.3	4.6	93.6	12.0	4.9	97.4
19.70	-0.20	43.4	pbd+03	13.00	2.70	pbd+03				knear	gg76	3.5	5.3	73.3	3.3	5.0	70.5	3.3	5.5	70.5
19.88	-0.53	50.9	swa+04	0.26	4.86	swa+04				kfar	swa+04	12.1	5.0	46.4	11.4	4.8	44.6	12.1	5.0	46.4
20.08	-0.14	42.2	ab09	1.60	2.70	pbd+03				kfar	ab09	12.6	5.4	85.6	11.9	5.1	82.4	12.6	5.4	85.6
20.50	0.20	24.1	pbd+03	2.40	2.70	pbd+03	2.0	0.2	rus03					28.7			28.7			28.7
20.73	-0.09	56.3	ab09	7.76	4.85	GB6				kfar	ab09	11.8	4.9	141.5	11.2	4.6	136.7	11.9	4.9	142.3
21.00	0.10	18.6	pbd+03	1.20	2.70	pbd+03				kfar	pdd04	14.2	6.9	84.3	13.3	6.5	80.7	13.9	6.7	83.1
21.14	-0.30	38.5	ab09	0.49	4.85	PMN				kfar	ab09	12.8	5.7	59.5	12.0	5.4	57.0	12.7	5.7	59.2
21.44	-0.56	70.2	swa+04	0.34	4.86	swa+04				knear	swa+04	4.7	4.5	27.0	4.3	4.3	25.4	4.4	4.7	25.8
21.67	-0.26	70.1	ab09	0.31	4.85	PMN				knear	ab09	4.7	4.5	26.2	4.3	4.3	24.7	4.4	4.7	25.1
21.87	0.01	26.9	swa+04	1.18	4.86	swa+04				kfar	swa+04	13.5	6.4	82.6	12.7	6.0	79.3	13.3	6.3	81.8
21.90	-0.37	79.5	ab09	3.00	2.70	pbd+03				kfar	ab09	10.7	4.3	94.7	10.2	4.1	91.7	10.9	4.4	95.9
22.36	0.06	82.5	swa+04	0.50	4.86	swa+04				knear	swa+04	5.1	4.2	32.4	4.8	4.0	31.1	4.8	4.5	31.1
22.76	-0.49	74.8	ab09	2.70	2.70	pbd+03				knear	ab09	4.8	4.5	53.6	4.4	4.3	50.6	4.5	4.7	51.3
22.80	-0.30	82.5	pbd+03	52.30	2.70	pbd+03				kfar	gg76	10.5	4.3	242.5	10.0	4.1	234.7	10.7	4.4	245.6
22.90	-0.30	71.1	pbd+03	2.40	2.70	pbd+03				kfar	pdd04	11.0	4.6	89.6	10.4	4.4	86.3	11.1	4.7	90.1
22.90	0.70	99.0	pbd+03	0.60	2.70	pbd+03				knear	pdd04	5.8	3.9	36.8	5.3	3.7	34.7	5.4	4.1	35.1
23.00	-0.40	74.1	pbd+03	4.10	2.70	pbd+03	4.59	0.4	brm+08					59.0			59.0			59.0
23.00	0.22	97.9	ab09	0.28	4.85	PMN				kfar	ab09	9.9	3.9	41.6	9.4	3.7	40.2	10.1	4.0	42.2
23.10	0.60	29.5	pbd+03	2.80	2.70	pbd+03	1.7	0.5	rus03	knear	pdd04	2.4	6.4	27.1			27.1			27.1

Table A.1. continued.

l (°)	b (°)	V_{lsr} km s ⁻¹	Ref.	S Jy	Freq GHz	Ref.	d kpc	d_{erro} kpc	Ref.	Mark	Ref.	$D_{8.5}$ kpc	$R_{8.5}$ kpc	$U_{8.5}$ pc cm ⁻²	$D_{8.0}$ kpc	$R_{8.0}$ kpc	$U_{8.0}$ pc cm ⁻²	$D_{8.4}$ kpc	$R_{8.4}$ kpc	$U_{8.4}$ pc cm ⁻²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
23.10	-0.20	89.6	pbd+03	2.10	2.70	pbd+03				kfar	lt08	10.2	4.1	81.4	9.7	3.9	78.7	10.4	4.2	82.5
23.10	-0.40	82.7	pbd+03	3.20	2.70	pbd+03				knear	lt08	5.1	4.3	59.0	4.7	4.1	55.9	4.8	4.5	56.7
23.24	-0.24	76.1	ab09	1.54	4.86	swa+04				knear	ab09	4.8	4.5	45.3	4.5	4.3	43.4	4.5	4.7	43.4
23.27	0.08	78.2	ab09	0.49	4.86	swa+04				knear	ab09	4.9	4.4	31.4	4.6	4.2	30.1	4.6	4.6	30.1
23.28	0.30	108.8	ab09	0.20	2.70	pbd+03				knear	ab09	6.2	3.7	26.7	5.7	3.6	25.2	5.7	4.0	25.2
23.42	-0.21	103.0	lt08	19.30	2.70	pbd+03	5.88	1.2	brm+08	kfar	lt08	9.6	3.8	117.1			117.1			117.1
23.46	-0.20	99.0	ab09	7.89	4.85	PMN				knear	ab09	5.8	3.9	88.6	5.3	3.8	83.4	5.4	4.2	84.5
23.50	-0.00	91.3	pbd+03	9.50	2.70	pbd+03				kfar	pdd04	10.1	4.1	133.8	9.6	3.9	129.3	10.3	4.2	135.6
23.61	-0.38	90.1	ab09	1.60	2.70	pbd+03				knear	ab09	5.4	4.2	48.7	5.0	4.0	46.3	5.0	4.4	46.3
23.71	0.17	103.8	ab09	2.60	2.70	pbd+03				knear	ab09	6.0	3.8	61.4	5.5	3.7	57.9	5.5	4.1	57.9
23.71	-0.20	76.5	swa+04	0.77	4.86	swa+04				kfar	swa+04	10.7	4.5	61.4	10.2	4.3	59.5	10.9	4.6	62.2
23.82	0.22	107.4	ab09	0.80	2.70	pbd+03				kfar	ab09	9.4	3.8	55.9	9.0	3.6	54.3	9.7	3.9	57.1
23.90	-0.10	73.8	pbd+03	1.10	2.70	pbd+03				kfar	pdd04	10.8	4.6	68.2	10.3	4.4	66.1	10.9	4.7	68.6
23.96	0.15	78.9	ab09	2.70	2.70	pbd+03	2.5	0.4	cf08	knear	ab09	4.9	4.5	34.7			34.7			34.7
24.13	-0.07	86.9	ab09	0.40	2.70	pbd+03				kfar	ab09	10.2	4.3	46.9	9.7	4.1	45.4	10.4	4.4	47.5
24.14	0.12	114.5	ab09	0.50	2.70	pbd+03				kfar	ab09	8.9	3.7	46.1	8.6	3.5	45.1	9.4	3.8	47.8
24.19	0.20	111.9	ab09	0.60	2.70	pbd+03				kfar	ab09	9.1	3.7	49.7	8.7	3.6	48.2	9.5	3.9	51.1
24.20	-0.10	83.6	pbd+03	0.80	2.70	pbd+03				kfar	pdd04	10.4	4.4	59.8	9.8	4.2	57.5	10.5	4.5	60.2
24.39	0.07	110.0	ab09	2.80	2.70	pbd+03				kfar	ab09	9.1	3.8	83.1	8.8	3.6	81.3	9.5	3.9	85.5
24.47	0.49	99.8	ab09	13.00	2.70	pbd+03				knear	ab09	5.8	4.0	102.6	5.4	3.8	97.8	5.4	4.2	97.8
24.48	0.21	115.7	ab09	18.00	2.70	pbd+03				kfar	ab09	8.8	3.7	151.1	8.5	3.5	147.6	9.3	3.8	156.8
24.50	-0.04	108.1	ab09	0.90	4.86	swa+04				kfar	ab09	9.2	3.8	58.5	8.8	3.7	56.8	9.6	4.0	60.2
24.51	-0.22	44.3	ab09	4.19	4.85	PMN				knear	ab09	3.2	5.7	48.3	3.0	5.4	46.3	3.1	5.8	47.3
24.51	-0.22	96.4	ab09	19.00	2.70	pbd+03				kfar	ab09	9.8	4.1	165.2	9.3	3.9	159.5	10.0	4.2	167.4
24.68	-0.16	44.0	ab09	4.91	4.85	PMN				knear	ab09	3.2	5.7	50.9	3.0	5.4	48.8	3.1	5.9	49.8
24.68	-0.16	111.1	ab09	9.90	2.70	pbd+03				kfar	ab09	9.0	3.8	125.6	8.7	3.6	122.8	9.4	3.9	129.3
24.70	-0.10	101.1	pbd+03	23.40	2.70	pbd+03				knear	pdd04	5.9	4.0	126.3	5.4	3.8	119.1	5.4	4.2	119.1
24.70	-0.20	84.8	pbd+03	3.20	2.70	pbd+03	2.2	0.25	rus03					33.7			33.7			33.7
24.81	0.10	108.6	ab09	13.30	2.70	pbd+03				knear	ab09	6.3	3.8	109.3	5.8	3.7	103.4	5.7	4.1	102.2
25.16	0.06	47.0	ab09	0.80	2.70	pbd+03				knear	ab09	3.4	5.7	28.4	3.1	5.3	26.7	3.2	5.8	27.3
25.26	-0.32	63.7	ab09	2.00	2.70	pbd+03				kfar	ab09	11.2	5.0	85.3	10.6	4.8	82.2	11.2	5.1	85.3
25.30	0.30	40.3	pbd+03	2.30	2.70	pbd+03	2.2	0.25	rus03					30.2			30.2			30.2
25.40	-0.14	98.4	ab09	16.19	4.85	PMN				knear	ab09	5.8	4.1	112.6	5.3	3.9	106.0	5.3	4.3	106.0
25.40	-0.30	62.5	pbd+03	1.60	2.70	pbd+03				kfar	pdd04	11.2	5.1	79.2	10.6	4.8	76.3	11.3	5.1	79.7
25.40	-0.20	59.1	pbd+03	26.00	2.70	pbd+03				kfar	pdd04	11.4	5.2	202.9	10.8	4.9	195.7	11.4	5.2	202.9
25.40	0.00	-13.7	pbd+03	1.40	2.70	pbd+03				kout	hh09	17.2	10.2	100.8	15.9	9.4	95.7	16.4	9.4	97.6
25.70	0.00	56.3	pbd+03	2.60	2.70	pbd+03				kfar	pdd04	11.5	5.3	94.7	10.9	5.0	91.4	11.5	5.3	94.7
25.77	0.21	110.8	ab09	2.28	4.86	swa+04				knear	ab09	6.5	3.9	63.2	5.9	3.7	59.2	5.9	4.1	59.2
25.79	-0.14	119.5	swa+04	0.42	4.86	swa+04				ktan	swa+04	7.7	3.7	40.3						
25.80	0.24	119.5	ab09	5.01	4.85	PMN				knear	ab09	7.3	3.7	88.8	6.4	3.6	81.3	6.3	3.9	80.5
26.10	-0.10	76.9	pbd+03	8.90	2.70	pbd+03				kfar	pdd04	10.5	4.7	134.4	9.9	4.5	129.2	10.6	4.8	135.3
26.40	1.80	43.0	pbd+03	0.20	2.70	pbd+03	2.3	0.7	rus03					13.8			13.8			13.8
26.54	0.41	88.4	kjb+03	3.20	2.70	pbd+03				kfar	kjb+03	9.9	4.4	91.9	9.4	4.2	88.8	10.1	4.5	93.1
26.56	-0.31	104.2	ab09	2.30	2.70	pbd+03				kfar	ab09	9.1	4.1	77.8	8.7	3.9	75.5	9.4	4.2	79.5
26.60	0.09	102.5	ab09	1.18	4.85	PMN				kfar	ab09	9.1	4.1	63.5	8.8	3.9	62.1	9.5	4.2	65.3
26.60	-0.11	69.2	ab09	5.70	2.70	pbd+03				kfar	ab09	10.8	5.0	118.0	10.2	4.7	113.6	10.9	5.0	118.7
26.98	-0.07	79.9	ab09	1.10	2.70	pbd+03				kfar	ab09	10.2	4.7	65.7	9.7	4.4	63.5	10.4	4.8	66.6
27.30	0.10	36.3	pbd+03	1.40	2.70	pbd+03				kfar	pdd04	12.5	6.3	81.5	11.7	5.9	78.0	12.4	6.2	81.1
27.31	-0.14	92.3	ab09	8.50	2.70	pbd+03				knear	ab09	5.5	4.4	86.0	5.1	4.2	81.8	5.1	4.6	81.8
27.50	0.20	33.9	pbd+03	3.00	2.70	pbd+03				kfar	pdd04	12.6	6.4	105.6	11.8	6.0	101.1	12.5	6.3	105.0
27.98	0.08	76.6	swa+04	0.33	4.86	swa+04				kfar	swa+04	10.3	4.8	45.1	9.7	4.6	43.3	10.4	4.9	45.4
28.00	0.32	92.7	ab09	0.39	4.85	PMN				kfar	ab09	9.4	4.4	44.9	9.0	4.2	43.6	9.7	4.6	45.9
28.00	-0.03	99.9	ab09	1.00	2.70	pbd+03				kfar	ab09	9.0	4.3	58.5	8.6	4.1	56.8	9.4	4.4	60.2
28.15	0.15	89.2	ab09	0.26	4.85	PMN				knear	ab09	5.4	4.5	27.1	5.0	4.3	25.7	5.0	4.7	25.7
28.25	0.01	110.3	ab09	0.33	4.85	PMN				kfar	ab09	8.1	4.1	38.4	7.9	3.9	37.8	8.8	4.2	40.6
28.30	-0.38	44.8	pmg08	0.37	1.40	ccg+98				kfar	pmg08	11.9	5.9	49.5	11.2	5.6	47.5	11.8	5.9	49.2
28.30	-0.38	75.6	pmg08	0.70	1.40	ccg+98				kfar	pmg08	10.3	4.9	55.6	9.7	4.6	53.4	10.4	5.0	56.0
28.44	0.00	96.9	ab09	0.90	2.70	pbd+03				knear	ab09	5.8	4.4	42.1	5.4	4.2	40.1	5.3	4.6	39.6
28.60	0.00	96.7	pbd+03	14.30	2.70	pbd+03				kfar	pdd04	9.1	4.4	143.1	8.7	4.2	138.9	9.4	4.5	146.2
28.60	-0.36	89.0	swa+04	0.78	4.86	swa+04				knear	swa+04	5.4	4.6	39.1	5.0	4.3	37.1	5.0	4.8	37.1
28.61	0.02	101.7	ab09	4.18	4.85	PMN				kfar	ab09	8.8	4.3	94.7	8.4	4.1	91.8	9.2	4.4	97.5
28.64	0.19	103.8	ab09	0.80	2.70	pbd+03				ktan	ab09	7.5	4.1	48.1						
28.70	0.00	102.3	pbd+03	6.80	2.70	pbd+03				kfar	pdd04	8.7	4.3	108.4	8.4	4.1	105.9	9.1	4.4	111.7
28.79	0.25	98.8	ab09	1.40	2.70	pbd+03				kfar	ab09	8.9	4.3	65.0	8.5	4.1	63.0	9.3	4.5	66.9
28.80	0.17	107.6	ab09	6.00	2.70	pbd+03				kfar	ab09	8.2	4.2	99.9	8.0	4.0	98.3	8.8	4.3	104.7

Table A.1. continued.

l (°)	b (°)	V_{lsr} km s ⁻¹	Ref.	S Jy	Freq GHz	Ref.	d kpc	d_{erro} kpc	Ref.	Mark	Ref.	$D_{8.5}$ kpc	$R_{8.5}$ kpc	$U_{8.5}$ pc cm ⁻²	$D_{8.0}$ kpc	$R_{8.0}$ kpc	$U_{8.0}$ pc cm ⁻²	$D_{8.4}$ kpc	$R_{8.4}$ kpc	$U_{8.4}$ pc cm ⁻²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
28.80	3.50	0.6	pbd+03	34.00	2.70	pbd+03				kout	hh09	15.0	8.6	266.5				14.5	8.2	260.5
28.82	-0.23	90.6	ab09	1.40	2.70	pbd+03				knear	ab09	5.5	4.5	47.1	5.1	4.3	44.8	5.1	4.7	44.8
28.86	0.06	101.7	ab09	0.60	4.86	swa+04				kfar	ab09	8.7	4.3	49.2	8.4	4.1	48.1	9.1	4.4	50.7
28.90	3.50	1.1	pbd+03	33.40	2.70	pbd+03				kout	hh09	14.9	8.5	263.7				14.5	8.1	259.0
29.00	-0.60	52.6	pbd+03	4.00	2.70	pbd+03	3.3	0.7	rus03					47.6			47.6			47.6
29.10	-0.70	47.3	pbd+03	1.20	2.70	pbd+03	3.3	0.7	rus03	knear	pdd04	3.2	5.9	31.9			31.9			31.9
29.10	-0.00	52.4	pbd+03	2.10	2.70	pbd+03	3.3	0.7	rus03					38.4			38.4			38.4
29.14	0.43	21.9	ab09	2.70	2.70	pbd+03				kfar	ab09	13.2	7.1	105.2	12.4	6.6	100.9	13.0	6.9	104.1
29.20	0.00	61.7	pbd+03	6.60	2.70	pbd+03	3.3	0.7	rus03					56.2			56.2			56.2
29.90	-0.00	97.5	pbd+03	19.00	2.70	pbd+03				kfar	pdd04	8.7	4.5	152.6	8.4	4.2	149.1	9.1	4.6	157.2
29.96	-0.02	91.3	swa+04	6.02	4.86	swa+04				kfar	swa+04	9.1	4.6	109.3	8.7	4.4	106.1	9.4	4.7	111.7
30.06	-0.33	101.3	ab09	0.11	4.85	PMN				knear	ab09	6.3	4.4	22.5	5.8	4.2	21.3	5.7	4.6	21.0
30.07	-0.16	98.2	ab09	1.00	2.70	pbd+03				kfar	ab09	8.6	4.4	56.8	8.3	4.2	55.5	9.1	4.6	59.0
30.23	-0.15	99.4	ab09	3.50	2.70	pbd+03				knear	ab09	6.2	4.4	69.3	5.7	4.2	65.5	5.6	4.6	64.8
30.28	-0.02	97.9	ab09	1.50	2.70	pbd+03				knear	ab09	6.1	4.5	51.7	5.6	4.3	48.8	5.5	4.7	48.3
30.38	-0.11	99.8	ab09	0.72	4.86	swa+04				knear	ab09	6.3	4.4	42.2	5.7	4.2	39.5	5.6	4.6	39.0
30.40	-0.24	102.5	ab09	8.50	2.70	pbd+03				kfar	ab09	8.1	4.4	111.3	7.9	4.2	109.5	8.7	4.5	116.7
30.42	0.46	22.5	swa+04	0.31	4.86	swa+04				kfar	swa+04	13.0	7.1	51.6	12.2	6.7	49.5	12.8	6.9	51.1
30.50	-0.29	107.3	ab09	3.20	2.70	pbd+03				kfar	ab09	7.8	4.3	78.4	7.3	4.1	75.0	8.4	4.4	82.4
30.50	0.00	49.6	pbd+03	1.50	2.70	pbd+03				knear	pdd04	3.3	5.9	34.3	3.1	5.5	32.9	3.2	6.0	33.6
30.50	0.40	57.7	pbd+03	2.20	2.70	pbd+03				knear	pdd04	3.8	5.6	42.8	3.5	5.3	40.5	3.6	5.7	41.3
30.54	0.02	46.1	ab09	1.61	4.85	PMN				kfar	ab09	11.5	6.0	82.3	10.8	5.7	78.9	11.5	6.0	82.3
30.54	-0.45	106.5	ab09	2.00	2.70	pbd+03				kfar	ab09	7.7	4.3	66.4	7.4	4.1	64.7	8.4	4.5	70.4
30.60	-0.10	102.5	pbd+03	2.60	2.70	pbd+03				ktan	pdd04	7.3	4.3	70.0						
30.60	-0.60	17.8	rus03				0.5	0.1	rus03											
30.69	-0.26	98.5	ab09	3.20	2.70	pbd+03				kfar	ab09	8.4	4.5	82.3	8.1	4.3	80.3	8.9	4.6	85.5
30.80	-0.00	91.8	pbd+03	95.00	2.70	pbd+03				knear	pmg08	8.9	4.6	265.0	5.2	4.4	185.2	5.2	4.8	185.2
30.85	0.13	100.0	kb94	1.80	2.70	pbd+03				ktan	kb94	7.3	4.4	61.9						
31.00	0.00	101.2	pbd+03	37.00	2.70	pbd+03				kfar	pdd04	8.0	4.4	180.2	7.8	4.2	177.2	8.6	4.6	189.1
31.05	0.48	27.9	ab09	1.70	2.70	pbd+03				kfar	ab09	12.6	6.9	87.4	11.8	6.4	83.7	12.4	6.7	86.5
31.13	0.28	104.7	ab09	1.20	2.70	pbd+03				kfar	ab09	7.7	4.4	56.0	7.4	4.2	54.5	8.4	4.5	59.3
31.17	-0.13	41.4	kb94	1.60	2.70	pbd+03				kfar	kb94	11.7	6.2	81.5	11.0	5.9	78.2	11.6	6.2	81.0
31.24	-0.11	98.0	kjb+03	3.40	2.70	pbd+03				ktan	kjb+03	7.3	4.4	76.5						
31.28	0.06	104.7	ab09	0.70	2.70	pbd+03				knear	ab09	6.8	4.4	43.1	6.4	4.2	41.4	6.0	4.6	39.6
31.40	-0.26	86.2	ab09	6.00	2.70	pbd+03				kfar	ab09	9.1	4.8	107.1	8.7	4.6	103.9	9.4	4.9	109.4
31.41	0.31	100.9	ab09	1.43	4.86	swa+04				knear	ab09	6.6	4.5	54.7	6.0	4.3	51.3	5.8	4.7	50.2
31.60	0.10	99.9	pbd+03	0.90	2.70	pbd+03				knear	pdd04	6.5	4.5	45.5	5.9	4.3	42.7	5.7	4.7	41.7
31.90	1.40	53.0	rus03	1.80	2.70	pbd+03	3.8	1.1	rus03	knear	pdd04	3.6	5.8	40.1			40.1			40.1
32.20	0.10	96.7	pbd+03	0.90	2.70	pbd+03				kfar	pdd04	8.1	4.6	52.7	7.8	4.4	51.4	8.6	4.7	54.8
32.80	0.20	15.5	pbd+03	1.70	2.70	pbd+03				kfar	pdd04	13.2	7.6	90.1	12.3	7.1	86.0	12.9	7.3	88.7
32.97	0.04	93.2	pmg08	0.16	1.40	csg+98				kfar	pmg08	8.2	4.7	29.2	7.9	4.5	28.5	8.6	4.9	30.1
33.13	-0.09	87.4	ab09	0.50	4.86	ahck02				knear	ab09	5.6	4.9	34.5	5.2	4.6	32.8	5.1	5.1	32.4
33.20	-0.01	105.8	ab09	0.29	4.86	was+03				kfar	ab09	8.4	4.5	37.7	7.7	4.3	35.6	7.0	4.7	33.4
33.24	0.01	35.1	was+03	0.46	4.86	was+03				kfar	was+03	11.8	6.6	55.2	11.1	6.2	53.0	11.6	6.5	54.6
33.40	-0.00	76.5	pbd+03	0.80	2.70	pbd+03				kfar	pdd04	9.3	5.2	55.5	8.8	4.9	53.5	9.5	5.3	56.3
33.81	-0.19	40.3	was+03	0.15	4.86	was+03				kfar	was+03	11.4	6.4	37.1	10.7	6.0	35.6	11.3	6.3	36.9
33.92	0.11	99.0	ab09	0.83	4.86	ahck02				kfar	ab09	7.9	4.7	51.4	7.2	4.4	48.3	7.8	4.8	51.0
34.09	0.44	32.6	ab09	0.18	4.86	was+03				kfar	ab09	11.8	6.8	40.4	11.1	6.3	38.8	11.7	6.6	40.2
34.26	0.15	54.0	ahck02	5.57	4.86	ahck02				knear	ahck02	3.5	5.9	56.4	3.3	5.6	54.2	3.4	6.0	55.3
34.30	0.10	54.5	pbd+03	15.00	2.70	pbd+03				knear	pdd04	3.6	5.9	78.3	3.4	5.6	75.4	3.4	6.0	75.4
34.40	0.23	60.1	ab09	0.06	4.86	was+03				kfar	ab09	10.1	5.7	25.2	9.5	5.4	24.2	10.2	5.7	25.4
34.76	-0.68	52.1	ab09	2.80	2.70	pbd+03				knear	ab09	3.4	6.0	43.1	3.2	5.7	41.4	3.3	6.1	42.3
34.93	-0.02	45.6	ab09	1.90	2.70	pbd+03				kfar	ab09	10.9	6.3	82.3	10.2	5.9	78.7	10.8	6.2	81.8
35.02	0.35	57.2	ab09	0.04	4.86	was+03				knear	ab09	3.7	5.8	11.3	3.5	5.5	10.9	3.6	5.9	11.1
35.04	-0.50	48.0	was+03	0.31	4.86	was+03				kfar	was+03	10.7	6.2	45.3	10.1	5.8	43.6	10.7	6.1	45.3
35.10	-1.50	44.2	pbd+03	3.00	2.70	pbd+03	3.27	0.5	zzr+08	knear	pdd04	3.0	6.3	42.4			42.4			42.4
35.20	-1.70	46.5	pbd+03	14.80	2.70	pbd+03	3.27	0.5	zzr+08					72.1			72.1			72.1
35.20	-1.80	47.1	pbd+03	19.00	2.70	pbd+03				knear	pdd04	3.1	6.2	76.7	3.0	5.8	75.0	3.0	6.3	75.0
35.30	-1.80	46.6	pbd+03	5.10	2.70	pbd+03				knear	pdd04	3.1	6.2	49.5	2.9	5.9	47.3	3.0	6.3	48.4
35.57	-0.03	51.8	ahck02	0.47	4.86	ahck02				knear	ahck02	3.4	6.1	24.2	3.2	5.7	23.2	3.3	6.1	23.7
35.58	0.07	47.6	ahck02	0.53	4.86	ahck02				knear	ahck02	3.2	6.2	24.2	3.0	5.8	23.2	3.1	6.3	23.7
35.60	-0.50	56.0	pbd+03	4.30	2.70	pbd+03				knear	pdd04	3.7	5.9	52.6	3.5	5.6	50.7	3.5	6.0	50.7
35.60	0.10	50.5	pbd+03	1.70	2.70	pbd+03				kfar	pdd04	10.5	6.1	77.4	9.9	5.7	74.4	10.4	6.1	76.9

Table A.1. continued.

l (°)	b (°)	V_{lsr} km s ⁻¹	Ref.	S Jy	Freq GHz	Ref.	d kpc	d_{erro} kpc	Ref.	Mark	Ref.	$D_{8.5}$ kpc	$R_{8.5}$ kpc	$U_{8.5}$ pc cm ⁻²	$D_{8.0}$ kpc	$R_{8.0}$ kpc	$U_{8.0}$ pc cm ⁻²	$D_{8.4}$ kpc	$R_{8.4}$ kpc	$U_{8.4}$ pc cm ⁻²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
35.67	-0.04	51.9	ab09	0.40	4.86	was+03				kfar	ab09	10.4	6.1	48.4	9.8	5.7	46.5	10.4	6.0	48.4
36.29	0.73	76.5	kb94	3.00	2.70	pbd+03				knear	kb94	5.1	5.3	57.8	4.7	5.0	54.7	4.7	5.5	54.7
36.30	-1.70	63.5	pbd+03	10.00	2.70	pbd+03	1.8	0.5	rus03	knear	pdd04	4.2	5.7	43.1			43.1			43.1
36.40	0.02	53.3	was+03	0.08	4.86	was+03				knear	was+03	3.5	6.0	13.7	3.3	5.7	13.2	3.4	6.1	13.4
36.50	-0.20	72.7	pbd+03	1.30	2.70	pbd+03				kfar	pdd04	8.9	5.5	63.4	8.4	5.1	61.0	9.0	5.5	63.9
37.20	-0.43	38.0	was+03	0.12	4.86	was+03				kfar	was+03	11.0	6.6	33.6	10.3	6.2	32.2	10.8	6.5	33.2
37.37	-0.24	39.4	was+03	0.26	4.86	was+03				kfar	was+03	10.9	6.6	43.3	10.2	6.2	41.4	10.7	6.5	42.8
37.40	-0.10	54.1	pbd+03	3.90	2.70	pbd+03				kfar	pdd04	9.9	6.1	98.1	9.3	5.7	94.1	9.9	6.0	98.1
37.40	-0.00	54.1	pbd+03	4.60	2.70	pbd+03				kfar	pdd04	9.9	6.1	103.7	9.3	5.7	99.5	9.9	6.0	103.7
37.50	-0.10	49.0	pbd+03	11.10	2.70	pbd+03				kfar	pdd04	10.2	6.2	141.9	9.6	5.9	136.3	10.2	6.2	141.9
37.60	-0.10	53.8	pbd+03	2.10	2.70	pbd+03				kfar	pdd04	9.9	6.1	79.8	9.3	5.7	76.5	9.9	6.1	79.8
37.67	0.13	88.9	ab09	3.70	2.70	pbd+03				kfar	ab09	7.8	5.1	82.3	7.2	4.8	78.0	7.2	5.2	78.0
37.70	-0.10	57.8	pbd+03	0.60	2.70	pbd+03				kfar	pdd04	9.6	6.0	51.5	9.1	5.6	49.7	9.6	5.9	51.5
37.75	-0.10	49.7	was+03	0.37	4.86	was+03				kfar	was+03	10.1	6.2	46.3	9.5	5.8	44.4	10.1	6.2	46.3
37.76	-0.20	66.6	was+03	1.20	4.86	was+03				kfar	was+03	9.0	5.7	63.4	8.5	5.4	61.0	9.1	5.7	63.9
37.90	-0.40	59.1	pbd+03	5.90	2.70	pbd+03				kfar	pdd04	9.5	5.9	109.6	8.9	5.6	104.9	9.5	5.9	109.6
38.10	-0.00	58.3	pbd+03	0.50	2.70	pbd+03				kfar	pdd04	9.5	6.0	48.1	8.9	5.6	46.1	9.5	6.0	48.1
39.25	-0.07	23.0	was+03	0.67	4.86	was+03				kfar	was+03	11.6	7.4	61.8	10.8	6.9	58.9	11.3	7.2	60.7
39.90	-1.30	44.3	pbd+03	3.00	2.70	pbd+03	2.1	0.6	rus03	knear	pdd04	3.0	6.5	32.0			32.0			32.0
40.42	0.70	20.1	was+03	0.07	4.86	was+03				kfar	was+03	11.6	7.5	29.1	10.8	7.0	27.7	11.3	7.3	28.6
40.50	2.50	23.0	pbd+03	8.80	2.70	pbd+03				knear	pdd04	1.6	7.4	38.2	1.6	6.9	38.2	1.7	7.3	39.8
40.95	-0.57	60.9	ab09	0.90	2.70	pbd+03				knear	ab09	4.2	6.0	34.0	4.0	5.6	32.9	4.1	6.1	33.5
41.10	-0.20	59.4	pbd+03	4.90	2.70	pbd+03				kfar	pdd04	8.7	6.0	97.2	8.2	5.7	93.4	8.7	6.0	97.2
41.20	0.40	71.3	pbd+03	1.00	2.70	pbd+03				knear	pdd04	5.4	5.7	41.6	5.0	5.4	39.5	4.9	5.8	39.0
41.50	0.00	17.5	pbd+03	1.00	2.70	pbd+03				kfar	pdd04	11.6	7.7	69.3	10.8	7.1	66.1	11.2	7.4	67.7
41.74	0.10	11.1	ahck02	0.34	4.86	ahck02				kfar	ahck02	12.0	8.0	50.4	11.2	7.4	48.1	11.6	7.7	49.3
41.91	-0.12	18.1	ab09	0.04	4.85	GB6				kfar	ab09	11.4	7.7	23.9	10.7	7.1	22.9	11.1	7.4	23.5
42.10	-0.60	66.0	pbd+03	3.40	2.70	pbd+03				knear	pdd04	4.9	5.9	58.7	4.6	5.5	56.3	4.6	6.0	56.3
42.11	-0.44	53.4	was+03	0.20	4.86	was+03				kfar	was+03	8.9	6.3	34.6	8.3	5.9	33.0	8.8	6.2	34.3
42.40	-0.38	65.0	ab09	0.04	4.85	GB6				knear	ab09	4.8	5.9	13.4	4.5	5.6	12.8	4.5	6.0	12.8
42.40	-0.30	63.2	pbd+03	1.20	2.70	pbd+03				kfar	pdd04	7.9	6.0	57.0	7.5	5.6	55.1	8.0	6.0	57.5
42.57	-0.14	67.2	ab09	2.20	2.70	pbd+03				kfar	ab09	7.4	5.9	66.8	6.9	5.5	63.8	7.6	5.9	68.0
43.17	0.00	7.4	was+03	13.96	4.86	was+03				kfar	was+03	12.0	8.2	174.0	11.1	7.6	165.2	11.5	7.9	169.1
43.18	-0.52	59.1	ab09	1.20	2.70	pbd+03				kfar	ab09	8.1	6.1	58.0	7.6	5.7	55.6	8.1	6.1	58.0
43.24	-0.05	9.4	was+03	0.79	4.86	was+03				kfar	was+03	11.8	8.1	66.1	11.0	7.5	63.1	11.4	7.8	64.6
43.79	-0.12	43.3	was+03	0.11	4.86	was+03				kfar	was+03	9.2	6.7	29.0	8.6	6.2	27.7	9.1	6.6	28.8
43.89	-0.78	53.4	ahck02	0.66	4.86	ahck02				kfar	ahck02	8.4	6.3	49.6	7.9	5.9	47.6	8.3	6.3	49.2
44.26	0.10	59.6	ab09	1.20	2.70	pbd+03				kfar	ab09	7.7	6.1	56.0	7.2	5.8	53.5	7.7	6.2	56.0
44.79	-0.49	44.8	ab09	1.00	2.70	pbd+03				kfar	ab09	8.9	6.6	58.1	8.3	6.2	55.5	8.7	6.6	57.2
45.07	0.13	59.2	ab09	0.47	4.86	ahck02				kfar	ab09	7.4	6.2	40.7	6.9	5.8	38.8	7.4	6.2	40.7
45.12	0.13	56.7	ab09	4.28	4.86	ahck02				kfar	ab09	7.7	6.2	87.3	7.2	5.9	83.5	7.7	6.3	87.3
45.45	0.06	55.6	ab09	4.77	4.86	ahck02				kfar	ab09	7.7	6.3	90.5	7.2	5.9	86.5	7.7	6.3	90.5
45.47	0.05	60.1	ahck02	0.75	4.86	ahck02				ktan	ahck02	6.0	6.1	41.4						
45.82	-0.29	61.2	ab09	0.43	4.86	was+03				kfar	ab09	6.6	6.1	36.6	6.2	5.8	35.1	6.8	6.2	37.3
45.93	-0.40	63.9	ab09	0.11	4.86	was+03				kfar	ab09	6.7	6.1	23.5	6.3	5.7	22.6	5.8	6.1	21.3
46.50	-0.20	57.2	pbd+03	5.40	2.70	pbd+03				knear	pdd04	4.7	6.3	66.6	4.5	5.9	64.7	4.5	6.3	64.7
48.60	0.00	19.1	pbd+03	13.00	2.70	pbd+03				kfar	pdd04	9.9	7.7	146.6	9.2	7.2	139.6	9.6	7.5	143.6
48.60	0.20	10.7	pbd+03	2.70	2.70	pbd+03				kfar	pdd04	10.6	8.1	90.9	9.8	7.5	86.3	10.1	7.8	88.0
48.93	-0.29	66.5	ab09	23.70	2.70	pbd+03				kfar	ab09	7.6	6.1	150.2	7.2	5.7	144.9	5.5	6.4	121.1
49.00	-0.30	64.8	pbd+03	113.00	2.70	pbd+03	5.1	2.2	xrm+08					193.7			193.7			193.7
49.10	-0.70		pbd+03	34.00	2.70	pbd+03	5.1	2.2	xrm+08					129.8			129.8			129.8
49.10	-0.40	71.2	pbd+03	11.20	2.70	pbd+03	5.1	2.2	xrm+08					89.6			89.6			89.6
49.20	-0.30	68.6	pbd+03	23.80	2.70	pbd+03	5.1	2.2	xrm+08					115.3			115.3			115.3
49.50	-0.40	57.5	pbd+03	119.00	2.70	pbd+03	5.1	2.2	xrm+08					197.1			197.1			197.1
51.20	-0.10		pbd+03	39.40	2.70	pbd+03	5.1	2.2	xrm+08					136.3			136.3			136.3
49.06	-0.26	64.1	ab09	1.10	2.70	pbd+03				knear	ab09	3.7	6.2	33.4	3.5	5.8	32.2	5.5	6.4	43.5
49.37	-0.30	53.7	kjb+03	28.60	2.70	pbd+03				kfar	kjb+03	5.7	6.5	132.0	5.7	6.1	132.0	5.8	6.5	133.5
49.40	-0.20	48.0	pbd+03	5.00	2.70	pbd+03				kfar	pdd04	7.1	6.6	85.4	6.5	6.2	80.5	6.9	6.6	83.8
49.44	-0.47	60.5	ab09	4.90	2.70	pbd+03				kfar	ab09	7.1	6.3	84.8	6.8	5.9	82.4	5.5	6.5	71.5
49.58	-0.38	62.1	ab09	7.60	2.70	pbd+03				knear	ab09	3.7	6.2	63.6	3.5	5.8	61.3	5.4	6.5	81.8
49.59	-0.46	64.2	ab09	1.90	2.70	pbd+03				knear	ab09	3.5	6.2	38.6	3.3	5.8	37.1	5.4	6.5	51.5
49.67	-0.45	62.7	was+03	0.08	4.86	was+03				ktan	was+03	5.5	6.5	18.5	5.2	6.1	17.8	5.4	6.4	18.3
49.70	-0.17	57.0	ab09	0.03	4.85	GB6				ktan	ab09	5.5	6.5	13.4	5.2	6.1	12.9	5.4	6.4	13.2
50.02	-0.08	66.8	kb94	2.20	2.70	pbd+03				ktan	kb94	5.5	6.5	54.8	5.1	6.1	52.1	5.4	6.4	54.1

Table A.1. continued.

l (°)	b (°)	V_{lsr} km s^{-1}	Ref.	S Jy	Freq GHz	Ref.	d kpc	d_{erro} kpc	Ref.	Mark	Ref.	$D_{8.5}$ kpc	$R_{8.5}$ kpc	$U_{8.5}$ pc cm^{-2}	$D_{8.0}$ kpc	$R_{8.0}$ kpc	$U_{8.0}$ pc cm^{-2}	$D_{8.4}$ kpc	$R_{8.4}$ kpc	$U_{8.4}$ pc cm^{-2}
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
50.10	-0.70	72.0	pbd+03	4.00	2.70	pbd+03				ktan	hh09	5.5	6.5	66.9	5.1	6.1	63.6	5.4	6.4	66.1
50.20	0.30	71.2	pbd+03	0.80	2.70	pbd+03				ktan	hh09	5.4	6.5	38.6	5.1	6.1	37.2	5.4	6.5	38.6
50.28	-0.39	10.3	was+03	0.27	4.86	was+03				kfar	was+03	10.2	8.1	41.9	9.5	7.5	40.0	9.8	7.8	40.8
50.29	0.69	25.9	pmg08	0.27	1.40	cgc+98				kfar	pmg08	9.0	7.4	37.0	8.3	6.9	35.1	8.6	7.3	35.9
51.10	0.20	42.9	pbd+03	5.90	2.70	pbd+03				kfar	pdd04	7.1	6.8	90.3	6.5	6.4	85.1	6.8	6.8	87.7
51.17	-0.74	44.3	ab09	0.04	4.85	GB6				kfar	ab09	6.9	6.8	17.1	6.3	6.4	16.1	6.6	6.7	16.6
51.20	0.10	55.3	pbd+03	41.00	2.70	pbd+03				ktan	hh09	5.3	6.6	141.7	5.0	6.2	136.3	5.3	6.6	141.7
51.36	0.00	52.7	ab09	4.00	2.70	pbd+03				kfar	ab09	6.5	6.5	74.8	6.2	6.1	72.5	5.2	6.6	64.5
52.20	0.70	2.2	pbd+03	2.00	2.70	pbd+03				kout	hh09	10.4	8.5	81.2				9.9	8.2	78.6
52.20	-0.50	47.6	pbd+03	3.00	2.70	pbd+03				ktan	hh09	5.2	6.7	58.5	4.9	6.3	56.2	5.2	6.6	58.5
52.23	0.74	-3.0	was+03	0.24	4.86	was+03				kfar	was+03	10.9	8.8	42.1	10.0	8.1	39.7	10.2	8.4	40.3
52.80	0.30	16.6	pbd+03	0.50	2.70	pbd+03				kfar	pdd04	9.1	7.9	46.8	8.4	7.3	44.4	8.7	7.6	45.4
52.94	-0.59	43.5	ab09	7.00	2.70	pbd+03				kfar	ab09	6.1	6.8	86.4	5.4	6.4	79.7	5.7	6.8	82.6
53.18	0.16	8.3	kb94	9.00	2.70	pbd+03				kfar	kb94	9.7	8.2	127.9	9.0	7.6	121.7	9.2	7.9	123.5
53.50	0.00	24.0	rus03	0.60	2.70	pbd+03	1.4	0.4	rus03	knear	pdd04	1.8	7.6	14.3			14.3			14.3
53.60	0.20	38.0	pbd+03	7.00	2.70	pbd+03				kfar	pdd04	6.7	7.0	91.9	6.1	6.6	86.3	6.4	7.0	89.1
54.10	-0.06	42.8	ab09	0.34	4.86	was+03				kfar	ab09	5.4	6.9	29.6	5.3	6.5	29.2	4.9	6.9	27.7
55.10	2.40	-79.7	pbd+03	1.10	2.70	pbd+03				kout	hh09	19.1	15.8	99.7	17.3	14.3	93.3	16.7	13.7	91.2
55.90	-3.80	29.6	rus03				4.5	1.3	rus03											
57.55	-0.27	6.3	was+03	0.24	4.86	was+03				kfar	was+03	8.8	8.3	36.5	8.1	7.7	34.5	8.2	8.0	34.8
59.50	-0.20	29.4	pbd+03	15.00	2.70	pbd+03	2.3	0.25	rus03					58.1			58.1			58.1
59.60	0.92	46.8	was+03	0.05	4.86	was+03				ktan	was+03	4.3	7.3	13.4	4.0	6.9	12.8	4.3	7.3	13.4
59.80	0.20	-3.3	pbd+03	1.10	2.70	pbd+03				kout	hh09	9.1	8.8	60.8	8.3	8.1	57.2	8.4	8.4	57.6
60.90	-0.10	18.6	pbd+03	2.00	2.70	pbd+03	2.2	0.3	rus03	knear	ahck02	1.7	7.8	28.8			28.8			28.8
61.50	0.10	27.3	pbd+03	9.00	2.70	pbd+03	2.2	0.3	rus03					47.6			47.6			47.6
62.90	0.10	19.2	pbd+03	0.60	2.70	pbd+03	2.2	0.3	rus03					19.3			19.3			19.3
62.90	0.10	19.2	pbd+03	0.30	2.70	pbd+03	2.2	0.3	rus03	knear	pdd04	1.9	7.8	15.3			15.3			15.3
63.05	-0.34	-9.3	was+03	0.04	4.86	was+03				kfar	was+03	8.9	9.1	20.3	8.1	8.4	19.1	8.0	8.7	18.9
63.20	0.40	15.3	pbd+03	5.10	2.70	pbd+03				knear	pdd04	1.4	8.0	29.1	1.6	7.4	31.8	2.0	7.8	36.9
63.20	0.50	19.4	pbd+03	7.00	2.70	pbd+03	2.2	0.3	rus03	knear	pdd04	1.9	7.8	43.8			43.8			43.8
64.10	-0.50	23.6	pbd+03	1.50	2.70	pbd+03	3.9	0.5	rus03					38.4			38.4			38.4
66.80	0.90	21.0	pbd+03	0.60	2.70	pbd+03				ktan	hh09	3.3	7.8	25.3	3.2	7.4	24.8	3.3	7.7	25.3
68.10	0.90	-32.5	pbd+03	0.90	2.70	pbd+03				kout	hh09	9.9	10.3	60.2	8.9	9.5	56.1	8.8	9.7	55.7
68.20	1.00		pbd+03	10.00	2.70	pbd+03	3.6	1.1	rus03					68.4			68.4			68.4
69.90	1.50	-63.2	pbd+03	4.90	2.70	pbd+03				kout	hh09	12.7	12.6	125.0	11.5	11.5	117.0	11.1	11.4	114.3
70.20	1.70	-22.9	pbd+03	2.20	2.70	pbd+03	7.0	1.5	rus03					64.4			64.4			64.4
70.29	1.60	-24.2	ahck02	4.37	4.86	ahck02	7.0	1.5	rus03					82.5			82.5			82.5
70.33	1.59	-21.1	ahck02	2.21	4.86	ahck02	7.0	1.5	rus03					65.7			65.7			65.7
71.60	2.80	16.0	pbd+03	5.30	2.70	pbd+03	2.8	0.8	rus03					46.8			46.8			46.8
74.80	0.60	-2.2	pbd+03	11.70	2.70	pbd+03	3.1	0.9	rus03					65.3			65.3			65.3
75.40	-0.40	-0.8	pbd+03	0.70	2.70	pbd+03				kout	hh09	4.9	8.7	34.6	4.1	8.0	30.7	3.6	8.4	28.2
75.80	0.30	-8.5	pbd+03	5.00	2.70	pbd+03				kout	hh09	5.7	9.0	73.8	5.0	8.3	67.6	4.6	8.6	64.0
75.80	0.40	-4.2	pbd+03	11.80	2.70	pbd+03				kout	hh09	5.2	8.8	92.4	4.5	8.2	83.9	4.1	8.5	78.9
76.20	-0.30	-28.2	pbd+03	1.50	2.70	pbd+03				kout	hh09	7.7	10.0	60.4	6.9	9.2	56.1	6.6	9.4	54.5
77.40	-3.70	8.1	rus03	0.10	2.70	pbd+03	2.6	0.8	rus03					11.9			11.9			11.9
78.00	-0.00	-1.0	pbd+03	17.90	2.70	pbd+03				kout	hh09	4.2	8.7	92.1	3.5	8.0	81.6	2.7	8.4	68.6
78.00	0.60	1.3	pbd+03	9.00	2.70	pbd+03				kout	hh09	3.9	8.6	69.7				1.8	8.3	41.6
78.20	-0.40	0.5	pbd+03	44.20	2.70	pbd+03				kout	hh09	4.0	8.6	120.5				1.7	8.3	68.1
78.30	1.40	-0.9	pbd+03	1.70	2.70	pbd+03				kout	hh09	4.1	8.7	41.3	3.4	8.0	36.5	2.6	8.4	30.5
78.30	1.50	-3.7	pbd+03	3.10	2.70	pbd+03				kout	hh09	4.5	8.8	53.7	3.8	8.1	48.0	3.2	8.5	42.8
78.30	2.80	-5.4	pbd+03	3.60	2.70	pbd+03				kout	hh09	4.8	8.9	59.0	4.1	8.2	53.1	3.6	8.5	48.7
78.40	2.70	-0.5	pbd+03	1.50	2.70	pbd+03				kout	hh09	4.1	8.7	39.7	3.3	8.0	34.4	2.4	8.4	27.8
78.50	-0.00	-7.8	pbd+03	4.90	2.70	pbd+03				kout	hh09	5.0	9.0	67.2	4.3	8.3	60.8	3.8	8.6	56.0
78.50	1.20	-4.5	pbd+03	155.20	2.70	pbd+03				kout	hh09	4.6	8.8	201.0	3.9	8.2	180.1	3.3	8.5	161.1
78.60	0.80	-4.5	pbd+03	8.00	2.70	pbd+03				kout	hh09	4.6	8.8	74.8	3.9	8.2	67.0	3.3	8.5	59.9
78.70	-0.60	-7.9	pbd+03	15.50	2.70	pbd+03				kout	hh09	5.0	9.0	98.6	4.3	8.3	89.2	3.8	8.6	82.1
78.70	0.90	3.0	pbd+03	5.90	2.70	pbd+03				kout	hh09	3.4	8.5	55.3				1.6	8.3	33.5
79.20	-0.30	-3.3	pbd+03	5.00	2.70	pbd+03				kout	hh09	4.3	8.8	61.1	3.6	8.1	54.3	2.8	8.4	45.9
79.20	-0.10	-5.0	pbd+03	21.80	2.70	pbd+03				kout	hh09	4.5	8.8	103.0	3.8	8.2	92.0	3.2	8.5	82.1
79.20	0.30	-3.9	pbd+03	5.30	2.70	pbd+03				kout	hh09	4.4	8.8	63.3	3.6	8.1	55.4	3.0	8.5	49.0
79.30	1.30	-41.2	pbd+03	27.50	2.70	pbd+03				kout	hh09	8.4	10.8	168.7	7.5	9.9	156.4	7.1	10.0	150.8
79.30	0.30	8.5	pbd+03	34.30	2.70	pbd+03				ktan	hh09	1.6	8.4	60.1	1.5	7.9	57.6	1.6	8.3	60.1
79.40	-0.80	1.6	pbd+03	24.40	2.70	pbd+03				kout	hh09	3.4	8.6	88.7				1.6	8.4	53.7
79.40	2.40	3.0	pbd+03	70.70	2.70	pbd+03				kout	hh09	3.2	8.5	121.4				1.6	8.4	76.5

Table A.1. continued.

l (°)	b (°)	V_{lsr} km s ⁻¹	Ref.	S Jy	Freq GHz	Ref.	d kpc	d_{erro} kpc	Ref.	Mark	Ref.	$D_{8.5}$ kpc	$R_{8.5}$ kpc	$U_{8.5}$ pc cm ⁻²	$D_{8.0}$ kpc	$R_{8.0}$ kpc	$U_{8.0}$ pc cm ⁻²	$D_{8.4}$ kpc	$R_{8.4}$ kpc	$U_{8.4}$ pc cm ⁻²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
79.80	0.10	-7.2	pbd+03	1.90	2.70	pbd+03				kout	hh09	4.7	8.9	47.0	4.0	8.3	42.2	3.4	8.6	37.9
80.00	-0.00	-1.0	pbd+03	4.20	2.70	pbd+03				kout	hh09	3.7	8.7	52.2	3.0	8.0	45.4	1.5	8.4	28.6
80.00	0.90	-14.8	pbd+03	3.20	2.70	pbd+03				kout	hh09	5.5	9.3	62.1	4.8	8.6	56.7	4.4	8.9	53.5
80.00	1.50	-15.4	pbd+03	4.30	2.70	pbd+03				kout	hh09	5.6	9.3	69.3	4.9	8.6	63.4	4.5	8.9	59.9
80.00	2.10	-4.7	pbd+03	28.10	2.70	pbd+03				kout	hh09	4.3	8.8	108.7	3.6	8.2	96.6	3.0	8.5	85.5
80.10	-0.10	-2.2	pbd+03	66.00	2.70	pbd+03				kout	hh09	3.9	8.7	135.4	3.2	8.1	118.7	2.2	8.4	92.4
80.20	0.80	-1.2	pbd+03	2.10	2.70	pbd+03				kout	hh09	3.7	8.7	41.4	3.0	8.0	36.0	1.4	8.4	21.7
80.30	0.70	-62.4	pbd+03	4.90	2.70	pbd+03				kout	hh09	10.4	12.3	109.4	9.3	11.2	101.5	8.8	11.2	97.9
80.30	0.80	-63.4	pbd+03	25.30	2.70	pbd+03				kout	hh09	10.5	12.4	190.4	9.4	11.3	176.9	8.9	11.3	170.5
80.40	0.40	9.7	pbd+03	53.20	2.70	pbd+03				ktan	hh09	1.4	8.4	63.6	1.3	7.9	60.5	1.4	8.3	63.6
80.40	0.50	7.5	pbd+03	30.80	2.70	pbd+03				ktan	hh09	1.4	8.4	53.0	1.3	7.9	50.4	1.4	8.3	53.0
80.60	1.50	11.3	pbd+03	15.70	2.70	pbd+03				ktan	hh09	1.4	8.4	42.4	1.3	7.9	40.4	1.4	8.3	42.4
80.90	-0.30	0.6	pbd+03	3.90	2.70	pbd+03				kout	hh09	3.2	8.6	46.2				1.3	8.4	25.3
80.90	-0.20	-1.0	pbd+03	30.20	2.70	pbd+03				kout	hh09	3.5	8.7	97.1	2.7	8.0	81.7	1.3	8.4	50.2
80.90	-0.10	-2.1	pbd+03	14.00	2.70	pbd+03				kout	hh09	3.7	8.7	78.0	3.0	8.1	67.8	1.7	8.4	46.4
80.90	0.40	1.8	pbd+03	7.90	2.70	pbd+03				kout	hh09	3.0	8.6	56.0				1.3	8.4	32.1
81.30	1.10	12.5	pbd+03	12.30	2.70	pbd+03				ktan	hh09	1.3	8.4	37.2	1.2	7.9	35.3	1.3	8.3	37.2
81.30	1.20	11.4	pbd+03	10.70	2.70	pbd+03				ktan	hh09	1.3	8.4	35.5	1.2	7.9	33.7	1.3	8.3	35.5
81.50	-0.00	-0.7	pbd+03	6.00	2.70	pbd+03				kout	hh09	3.3	8.7	54.5	2.5	8.0	45.3	1.2	8.4	27.8
81.50	0.60	0.7	pbd+03	78.40	2.70	pbd+03				kout	hh09	3.1	8.6	123.1				1.2	8.4	65.4
81.60	2.10	-6.9	pbd+03	3.80	2.70	pbd+03				kout	hh09	4.2	8.9	54.9	3.5	8.3	48.6	2.9	8.6	42.9
81.70	0.50	-0.2	pbd+03	15.50	2.70	pbd+03				kout	hh09	3.2	8.6	73.2	2.4	8.0	60.4	1.2	8.4	38.1
81.70	0.30	10.5	pbd+03	0.20	2.70	pbd+03				ktan	hh09	1.2	8.4	8.9	1.2	7.9	8.9	1.2	8.3	8.9
81.87	0.78	1.7	pmg08	0.09	1.40	cgg+98				kfar	pmg08	2.8	8.6	11.8	1.7	7.9	8.5	1.2	8.4	6.7
82.00	2.30	-5.1	pbd+03	1.90	2.70	pbd+03				kout	hh09	3.9	8.8	41.5	3.2	8.2	36.4	2.5	8.5	30.9
82.30	2.40	-3.3	pbd+03	104.90	2.70	pbd+03				kout	hh09	3.6	8.8	149.8	2.8	8.1	126.7	1.9	8.5	97.8
82.40	2.50	-4.6	pbd+03	18.30	2.70	pbd+03				kout	hh09	3.7	8.8	85.2	3.0	8.2	74.1	2.2	8.5	60.2
82.60	0.40	-9.6	pbd+03	25.30	2.70	pbd+03				kout	hh09	4.4	9.0	106.6	3.7	8.4	95.0	3.1	8.7	84.4
83.80	3.30	5.9	pbd+03	8.00	2.70	pbd+03				ktan	hh09	0.9	8.5	25.2	0.9	8.0	25.2	0.9	8.4	25.2
84.80	3.80	-9.6	pbd+03	11.60	2.70	pbd+03				kout	hh09	4.0	9.0	77.1	3.3	8.4	67.8	2.7	8.7	59.3
84.80	-3.50	5.2	pbd+03	0.10	2.70	pbd+03				ktan	hh09	0.8	8.5	5.4	0.7	8.0	4.9	0.8	8.4	5.4
84.90	-1.20	5.5	pbd+03	0.50	2.70	pbd+03				ktan	hh09	0.8	8.5	9.2	0.7	8.0	8.4	0.8	8.4	9.2
85.20	-0.10	-0.9	pbd+03	1.50	2.70	pbd+03				kout	hh09	2.6	8.7	29.3	1.7	8.0	22.1	0.7	8.5	12.2
85.20	0.00	-31.2	pbd+03	1.50	2.70	pbd+03				kout	hh09	6.3	10.1	52.8	5.5	9.3	48.2	5.1	9.5	45.9
85.50	-1.00	3.4	rus03				1.0	0.3	rus03					116.0			116.0			116.0
87.60	-3.80	2.8	rus03				0.9	0.3	rus03					47.0			47.0			47.0
90.20	1.70	-60.9	pbd+03	1.00	2.70	pbd+03				kout	hh09	8.6	12.1	56.8	7.6	11.1	52.3	7.0	11.1	49.5
90.20	2.10	-65.6	pbd+03	0.10	2.70	pbd+03				kout	hh09	9.1	12.5	27.4	8.1	11.4	25.4	7.5	11.3	24.1
93.10	2.80	-61.0	pbd+03	2.80	2.70	pbd+03	6.3	1.1	rus03					65.0			65.0			65.0
94.40	-5.50	0.9	pbd+03	1.90	2.70	pbd+03	0.9	0.04	rus03					15.6			15.6			15.6
94.50	-1.50	-38.6	rus03	2.30	2.70	pbd+03	3.6	0.8	rus03					41.9			41.9			41.9
95.40	16.80	-4.0	rus03				0.4	0.04	rus03											
96.00	2.00	-74.0	rus03				9.6	0.4	rag07					74.7			74.7			74.7
96.30	2.60	-95.0	rus03	0.60	2.70	pbd+03	9.7	2.9	rus03					51.9			51.9			51.9
96.30	-0.20	-54.2	rus03				8.88	0.61	rag07					45.1			45.1			45.1
97.60	3.20	-72.5	pbd+03	0.70	2.70	pbd+03				kout	hh09	9.0	13.2	52.0	7.9	12.0	47.7	7.2	11.9	44.8
99.10	7.40	-13.9	pbd+03	0.20	2.70	pbd+03				kout	hh09	2.5	9.3	14.6	2.0	8.6	12.6	1.5	8.9	10.4
99.30	3.70	-2.0	rus03				0.9	0.04	rus03					59.0			59.0			59.0
100.00	10.00	-9.6	rus03				0.6	0.1	rus03											
101.40	2.70	-61.0	rus03	0.20	2.70	pbd+03	5.25	0.29	rag07	kout	hh09	7.2	12.2	23.7			23.7			23.7
102.90	-0.70	-48.1	pbd+03	2.60	2.70	pbd+03	3.1	0.3	rus03					39.5			39.5			39.5
103.00	-0.80	-48.5	pbd+03	2.70	2.70	pbd+03				kout	hh09	5.7	11.3	60.1	5.0	10.3	55.1	4.4	10.4	50.6
103.70	2.20	-16.1	pbd+03	0.60	2.70	pbd+03	1.2	0.25	rus03					12.9			12.9			12.9
104.60	1.40	-20.7	pbd+03	1.40	2.70	pbd+03	1.2	0.25	rus03					17.1			17.1			17.1
105.20	7.10	-10.3	pbd+03	0.20	2.70	pbd+03	0.7	0.1	rus03					6.2			6.2			6.2
105.60	0.40	-52.0	rus03	0.70	2.70	pbd+03	2.91	1.4	rag07					24.4			24.4			24.4
106.80	3.30	-65.0	pbd+03	0.60	2.70	pbd+03	8.34	0.6	rag07					46.8			46.8			46.8
106.80	5.30	-8.5	pbd+03	0.70	2.70	pbd+03	0.9	0.1	rus03					11.2			11.2			11.2
107.20	-1.00	-36.0	pbd+03	6.60	2.70	pbd+03	3.7	0.25	rus03					60.7			60.7			60.7
107.30	-0.90	-41.0	pbd+03	0.60	2.70	pbd+03				kout	hh09	4.6	10.8	31.5	4.0	9.9	28.7	3.4	10.1	25.8
108.20	0.60	-56.3	pbd+03	1.50	2.70	pbd+03				kout	hh09	6.2	12.0	52.2	5.4	10.9	47.6	4.8	11.0	44.0
108.20	5.60	-8.8	pbd+03	0.10	2.70	pbd+03	0.9	0.1	rus03					5.9			5.9			5.9
108.30	-1.00	-55.2	rus03	0.60	2.70	pbd+03	5.3	1.1	rus03					34.7			34.7			34.7
108.80	-0.90	-50.1	pbd+03	0.90	2.70	pbd+03	2.39	0.21	rag07					22.7			22.7			22.7

Table A.1. continued.

l (°) (1)	b (°) (2)	V_{lsr} km s ⁻¹ (3)	Ref. (4)	S Jy (5)	Freq GHz (6)	Ref. (7)	d kpc (8)	d_{erro} kpc (9)	Ref. (10)	Mark (11)	Ref. (12)	$D_{8.5}$ kpc (13)	$R_{8.5}$ kpc (14)	$U_{8.5}$ pc cm ⁻² (15)	$D_{8.0}$ kpc (16)	$R_{8.0}$ kpc (17)	$U_{8.0}$ pc cm ⁻² (18)	$D_{8.4}$ kpc (19)	$R_{8.4}$ kpc (20)	$U_{8.4}$ pc cm ⁻² (21)
108.80	-1.00	-49.1	pbd+03	1.80	2.70	pbd+03	2.39	0.21	rag07					28.7			28.7			28.7
109.10	-0.30	-47.0	pbd+03	0.40	2.70	pbd+03				kout	hh09	5.1	11.3	29.5	4.4	10.3	26.7	3.9	10.4	24.7
109.20	1.50	-11.5	pbd+03	0.50	2.70	pbd+03	0.7	0.04	rus03					8.5			8.5			8.5
110.10	0.10	-49.8	pbd+03	2.10	2.70	pbd+03				kout	hh09	5.4	11.5	53.3	4.6	10.5	47.9	4.1	10.6	44.4
110.10	0.00	-51.7	pbd+03	2.50	2.70	pbd+03	3.0	0.7	rag07					38.2			38.2			38.2
110.20	2.50	-10.0	pbd+03	5.00	2.70	pbd+03	0.7	0.04	rus03					18.2			18.2			18.2
111.30	-0.70	-43.0	pbd+03	1.20	2.70	pbd+03				kout	hh09	4.6	11.0	39.7	3.9	10.1	35.6	3.4	10.2	32.5
111.50	0.80	-60.8	pbd+03	28.60	2.70	pbd+03	2.4	0.14	rag07					74.1			74.1			74.1
111.60	0.90	-60.6	pbd+03	0.60	2.70	pbd+03	2.65	0.1	mrm+08					21.6			21.6			21.6
111.60	0.40	-64.5	pbd+03	2.20	2.70	pbd+03	2.4	0.14	rag07					31.5			31.5			31.5
111.90	4.10	5.8	rus03				1.1	0.3	rus03											
112.20	0.20	-41.8	pbd+03	7.30	2.70	pbd+03	3.2	0.25	rus03					57.0			57.0			57.0
113.60	-0.70	-42.7	pbd+03	6.90	2.70	pbd+03	3.53	0.17	rag07					59.3			59.3			59.3
114.60	0.20	-33.0	rus03				1.7	0.5	rus03					19.0			19.0			19.0
115.00	3.20	-63.6	pbd+03	0.20	2.70	pbd+03				kout	hh09	6.7	12.9	28.1	5.9	11.7	25.8	5.2	11.7	23.7
115.80	-1.60	-40.8	pbd+03	1.60	2.70	pbd+03	2.5	0.5	rus03					29.1			29.1			29.1
117.60	2.30	-43.7	rus03	2.30	2.70	pbd+03	2.6	0.27	rag07					33.8			33.8			33.8
118.10	5.00	-9.1	pbd+03	9.50	2.70	pbd+03	0.7	0.04	rus03					22.6			22.6			22.6
118.60	-1.30	-40.8	pbd+03	2.10	2.70	pbd+03	3.12	0.34	rag07					36.8			36.8			36.8
119.40	-0.90		pbd+03	2.60	2.70	pbd+03	3.12	0.34	rag07					39.5			39.5			39.5
119.40	-0.80	-34.5	pbd+03	0.60	2.70	pbd+03	3.12	0.34	rag07					24.2			24.2			24.2
120.40	2.00	-49.0	rus03	0.10	2.70	pbd+03	1.09	0.21	rag07					6.3			6.3			6.3
122.60	0.10	-42.3	rus03				5.3	1.6	rus03											
123.00	3.00	-10.3	pbd+03	0.30	2.70	pbd+03				kout	hh09	1.1	9.2	9.6	0.8	8.5	7.8	0.5	8.8	5.7
123.10	-6.30	-29.7	pbd+03	8.40	2.70	pbd+03	2.9	0.4	rus03					55.9			55.9			55.9
123.20	-6.30	-30.4	pbd+03	4.30	2.70	pbd+03	2.9	0.4	rus03					44.7			44.7			44.7
124.00	-1.90	+3.0	rus03				0.2	0.1	rus03											
124.90	0.30	-43.0	pbd+03	0.20	2.70	pbd+03				kout	hh09	4.2	11.5	20.6	3.6	10.5	18.6	3.1	10.6	16.8
132.20	-0.70	-56.6	pbd+03	0.60	2.70	pbd+03				kout	hh09	6.2	13.5	38.5	5.3	12.3	34.7	4.6	12.1	31.6
133.70	1.20	-40.1	pbd+03	79.10	2.70	pbd+03	2.3	0.25	rus03					101.1			101.1			101.1
133.80	1.40	-47.7	pbd+03	17.90	2.70	pbd+03	2.3	0.25	rus03					61.6			61.6			61.6
136.10	2.10	-46.3	rus03	0.10	2.70	pbd+03	2.4	0.32	rag07					11.3			11.3			11.3
136.50	2.50	-45.1	pbd+03	0.20	2.70	pbd+03				kout	hh09	4.9	12.5	22.8	4.2	11.4	20.6	3.6	11.4	18.6
136.90	1.00	-41.3	pbd+03	2.50	2.70	pbd+03	2.3	0.25	rus03					32.0			32.0			32.0
138.50	1.60	-34.6	pbd+03	1.20	2.70	pbd+03	2.3	0.25	rus03					25.0			25.0			25.0
140.00	2.00	-10.7	rus03				1.1	0.2	rus03											
143.60	-1.80	-34.4	rus03	12.00	2.70	pbd+03	1.71	0.31	rag07					44.1			44.1			44.1
145.80	3.00	-26.0	rus03				4.0	1.2	rus03											
148.50	-0.20	-17.5	rus03				0.8	0.2	rus03					20.0			20.0			20.0
150.60	0.90	-25.1	pbd+03	17.30	2.70	pbd+03	2.7	0.8	rus03					67.8			67.8			67.8
151.30	2.00	-32.9	rus03	0.10	2.70	pbd+03	7.5	1.6	rus03					24.0			24.0			24.0
151.60	-0.20	-49.9	pbd+03	12.40	2.70	pbd+03	10.1	1.7	rus03					145.3			145.			145.
154.60	2.40	-35.5	pbd+03	0.70	2.70	pbd+03	6.8	0.9	rus03					43.1			43.1			43.1
155.40	2.60	-40.1	pbd+03	1.60	2.70	pbd+03	6.8	0.9	rus03					56.8			56.8			56.8
157.10	-3.60	-31.0	pbd+03	0.10	2.70	pbd+03				kout	hh09	5.6	13.8	19.8	4.8	12.5	17.9	3.9	12.2	15.6
159.10	3.30	-20.5	pbd+03	0.40	2.70	pbd+03	4.19	0.27	rag07					25.5			25.5			25.5
159.40	2.60	-24.5	pbd+03	0.10	2.70	pbd+03	4.19	0.27	rag07					16.1			16.1			16.1
160.30	0.90	-25.2	pbd+03	0.10	2.70	pbd+03	4.19	0.27	rag07					16.1			16.1			16.1
161.00	12.00	7.0	rus03				0.5	0.2	rus03					37.0			37.0			37.0
168.10	3.10	-22.6	rus03	0.10	2.70	pbd+03	3.8	1.1	rus03					15.3			15.3			15.3
168.60	0.00	-27.1	rus03	0.60	2.70	pbd+03	4.2	1.3	rus03					29.7			29.7			29.7
169.20	-0.90	-20.5	pbd+03	1.50	2.70	pbd+03	4.1	1.2	rus03					39.7			39.7			39.7
172.50	2.00		rus03				0.5	0.1	rus03					23.0			23.0			23.0
173.40	-0.20	-14.3	rus03	1.50	2.70	pbd+03	1.8	0.25	rus03					22.9			22.9			22.9
173.60	2.80	-24.5	pbd+03	3.70	2.70	pbd+03	1.6	0.3	rus03					28.6			28.6			28.6
173.60	-1.80	-7.2	pbd+03	2.10	2.70	pbd+03	4.3	0.25	rus03					45.8			45.8			45.8
173.90	0.30	-4.3	rus03	0.80	2.70	pbd+03	5.2	0.8	rus03					37.7			37.7			37.7
180.90	4.10	-6.5	rus03	1.40	2.70	pbd+03	4.9	1.0	rus03					43.6			43.6			43.6
182.40	0.20	0.0	rus03	0.90	2.70	pbd+03	2.2	0.7	rus03					22.1			22.1			22.1
188.90	0.80	3.0	rus03	0.90	2.70	pbd+03	4.2	1.3	rus03					34.0			34.0			34.0
189.00	4.00	-5.4	rus03				1.8	0.3	rus03					56.0			56.0			56.0
189.80	0.30	7.5	pbd+03	0.20	2.70	pbd+03	2.1	0.03	rmb+08					13.0			13.0			13.0
192.20	3.60	14.4	rus03	0.10	2.70	pbd+03	5.1	1.5	rus03					18.6			18.6			18.6
192.60	-0.00	5.8	pbd+03	1.40	2.70	pbd+03	2.46	0.16	rag07					27.1			27.1			27.1
192.90	-0.60	22.8	rus03	0.30	2.70	pbd+03	8.9	2.7	rus03					38.9			38.9			38.9

Table A.1. continued.

l (°) (1)	b (°) (2)	V_{lsr} km s^{-1} (3)	Ref. (4)	S Jy (5)	Freq GHz (6)	Ref. (7)	d kpc (8)	d_{erro} kpc (9)	Ref. (10)	Mark (11)	Ref. (12)	$D_{8.5}$ kpc (13)	$R_{8.5}$ kpc (14)	$U_{8.5}$ pc cm^{-2} (15)	$D_{8.0}$ kpc (16)	$R_{8.0}$ kpc (17)	$U_{8.0}$ pc cm^{-2} (18)	$D_{8.4}$ kpc (19)	$R_{8.4}$ kpc (20)	$U_{8.4}$ pc cm^{-2} (21)
193.70	-2.20	6.0	rus03				1.6	0.5	rus03											
194.70	15.60	0.3	rus03				0.5	0.1	rus03					7.0			7.0			7.0
195.10	12.00	12.0	rus03				0.5	0.1	rus03											
195.70	-0.10	28.6	rus03	0.20	2.70	pbd+03	2.0	0.6	rus03					12.6			12.6			12.6
196.40	-1.70	17.1	pbd+03	0.70	2.70	pbd+03	4.2	1.3	rus03					31.3			31.3			31.3
196.40	-2.90	6.3	rus03				1.3	0.4	rus03					42.0			42.0			42.0
196.80	-3.10	25.6	pbd+03	0.10	2.70	pbd+03				kout	hh09	6.4	14.8	21.6	5.5	13.4	19.5	4.8	13.2	17.8
196.90	10.40	12.0	pbd+03	0.10	2.70	pbd+03				kout	hh09	2.3	10.8	10.9	2.0	9.9	9.9	1.9	10.3	9.6
197.80	-2.30	19.2	rus03	0.30	2.70	pbd+03	5.1	1.1	rus03					26.8			26.8			26.8
202.90	2.20	7.0	rus03				0.8	0.04	rus03											
206.30	-2.10	14.8	rus03				1.9	0.25	rus03					126.0			126.0			126.0
206.50	16.40	5.0	pbd+03	77.20	2.70	pbd+03	0.4	0.04	rus03					31.3			31.3			31.3
206.60	16.20	9.6	pbd+03	0.10	2.70	pbd+03	0.4	0.04	rus03					3.4			3.4			3.4
208.40	19.10	8.0	pbd+03	2.30	2.70	pbd+03	0.4	0.04	rus03					9.7			9.7			9.7
208.70	-2.60	11.1	rus03	1.80	2.70	pbd+03	1.4	0.4	rus03					20.6			20.6			20.6
208.90	19.30	7.7	pbd+03	23.00	2.70	pbd+03	0.4	0.04	rus03					20.9			20.9			20.9
209.00	19.40	-2.3	pbd+03	392.00	2.70	pbd+03	0.4	0.04	rus03					53.7			53.7			53.7
210.60	-1.40	22.0	rag07	0.10	2.70	pbd+03	1.17	0.29	rag07					6.7			6.7			6.7
210.80	-2.60	49.4	pbd+03	0.10	2.70	pbd+03	7.89	0.27	rag07					24.7			24.7			24.7
211.14	-1.01	37.1	rag07				4.01	0.73	rag07											
211.90	-1.20	45.0	pbd+03	0.10	2.70	pbd+03	7.89	0.27	rag07					24.7			24.7			24.7
213.70	12.60	12.0	pbd+03	9.80	2.70	pbd+03				kout	hh09	1.3	9.6	34.5	1.1	8.9	30.9	0.9	9.3	27.0
213.80	0.60	45.3	pbd+03	0.10	2.70	pbd+03	7.89	0.27	rag07					24.7			24.7			24.7
216.10	0.00	22.6	rus03	0.10	2.70	pbd+03	1.7	0.5	rus03					8.9			8.9			8.9
218.10	-0.30	27.2	pbd+03	0.30	2.70	pbd+03	2.9	0.5	rus03					18.4			18.4			18.4
218.70	1.80	55.0	rus03				7.5	2.2	rus03					43.0			43.0			43.0
218.80	-4.60	51.1	rus03	0.30	2.70	pbd+03	8.5	0.25	rus03					37.7			37.7			37.7
220.70	-2.20	9.9	pbd+03	0.10	2.70	pbd+03				kout	hh09	1.0	9.3	6.3	0.8	8.6	5.4	0.5	8.9	4.0
220.90	-2.50	13.4	pbd+03	0.30	2.70	pbd+03				kout	hh09	1.3	9.6	10.8	1.0	8.8	9.1	0.8	9.1	7.8
221.80	-2.00	40.0	pbd+03	0.10	2.70	pbd+03				kout	hh09	4.3	12.0	16.6	3.7	11.0	15.0	3.2	11.1	13.6
224.10	-2.00	18.4	pbd+03	3.60	2.70	pbd+03	1.0	0.04	rus03					20.7			20.7			20.7
224.20	-2.90	14.6	pbd+03	0.10	2.70	pbd+03	1.0	0.04	rus03					6.3			6.3			6.3
224.20	1.20	33.6	rus03	0.50	2.70	pbd+03	3.24	0.56	rag07					23.3			23.3			23.3
227.80	-0.20	56.5	rus03				3.7	1.1	rus03					54.0			54.0			54.0
231.50	-4.30	53.0	pbd+03	3.90	2.70	pbd+03				kout	hh09	5.5	12.7	66.3	4.7	11.6	59.7	4.2	11.5	55.4
232.60	0.90	17.8	rus03				2.5	0.7	rus03					29.0			29.0			29.0
233.80	-0.20	40.2	pbd+03	1.70	2.70	pbd+03	4.3	0.4	rus03					42.7			42.7			42.7
234.30	-0.40	44.1	pbd+03	1.00	2.70	pbd+03				kout	hh09	4.4	11.6	36.3	3.7	10.6	32.3	3.2	10.7	29.4
234.60	-0.20	44.0	pbd+03	0.60	2.70	pbd+03				kout	hh09	4.3	11.6	30.2	3.7	10.6	27.3	3.2	10.7	24.8
234.80	10.10	16.0	rus03				1.3	0.4	rus03					17.0			17.0			17.0
235.50	-4.10	28.2	rus03				2.5	0.4	rus03											
236.60	-2.10	26.3	rus03				2.3	0.7	rus03											
237.00	-1.30	74.8	rus03				5.4	2.0	rus03											
237.30	-6.50	18.0	rus03				1.6	0.25	rus03											
238.50	-4.70	20.6	rus03				1.4	0.1	rus03											
241.50	-0.60	70.1	rus03				4.7	0.6	rus03											
243.20	0.40	53.9	pbd+03	14.70	2.70	pbd+03	4.0	0.25	rus03					83.5			83.5			83.5
246.00	1.20	62.9	rus03				6.7	1.1	rus03											
247.50	2.20	40.8	rus03				4.0	0.8	rus03											
247.80	-0.50	55.2	rus03				3.2	0.4	rus03											
248.00	-5.50	51.3	rus03				4.4	0.5	rus03											
253.00	-1.30	9.5	rus03				1.3	0.3	rus03											
253.60	-0.20	36.3	pbd+03	19.00	2.70	pbd+03	3.0	0.3	rus03					75.1			75.1			75.1
254.70	0.20	64.0	pbd+03	3.80	2.70	pbd+03	7.6	0.9	cor+07					81.6			81.6			81.6
255.70	-2.40	9.6	rus03				0.5	0.1	rus03											
260.10	0.60	7.1	rus03				1.2	0.2	rus03											
261.40	0.80	7.1	rus03				1.0	0.04	rus03											
262.90	-2.40	8.7	rus03				0.6	0.03	rus03											
263.00	1.50	5.5	rus03				1.1	0.2	rus03											
263.60	-0.50	1.0	pbd+03	2.10	2.70	pbd+03				kout	hh09	1.0	8.7	17.3	0.3	8.0	7.8			
264.30	1.50	12.0	pbd+03	3.20	2.70	pbd+03	3.1	0.9	rus03					42.4			42.4			42.4
264.30	0.30	9.0	rus03				1.7	0.3	rus03											
264.40	1.10	6.0	rus03				0.9	0.1	rus03											
265.10	1.50	2.3	pbd+03	31.70	2.70	pbd+03				kout	hh09	1.4	8.7	53.6	0.7	8.1	33.8			
265.20	1.50	3.0	pbd+03	25.10	2.70	pbd+03				kout	hh09	1.5	8.8	51.9	0.8	8.1	34.1			

Table A.1. continued.

l	b	V_{lsr}	Ref.	S	Freq	Ref.	d	d_{erro}	Ref.	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$U_{8.5}$	$D_{8.0}$	$R_{8.0}$	$U_{8.0}$	$D_{8.4}$	$R_{8.4}$	$U_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s $^{-1}$		Jy	GHz		kpc	kpc		(11)	(12)	kpc	kpc	pc cm $^{-2}$	kpc	kpc	pc cm $^{-2}$	kpc	kpc	pc cm $^{-2}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)			(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
267.80	-0.90	7.9	pbd+03	21.60	2.70	pbd+03	1.6	0.2	rus03					51.5			51.5			51.5
267.90	-1.10	1.0	pbd+03	153.30	2.70	pbd+03	1.6	0.2	rus03					99.0			99.0			99.0
268.00	-1.10	1.8	pbd+03	183.30	2.70	pbd+03				kout	hh09	1.6	8.7	105.1	0.8	8.1	66.2			
268.00	-1.00	1.8	pbd+03	19.40	2.70	pbd+03				kout	hh09	1.6	8.7	49.7	0.8	8.1	31.3			
268.00	1.80	-0.9	rus03				0.5	0.1	rus03											
268.20	-2.70	13.0	rus03				2.6	0.5	rus03											
268.50	-0.80	5.0	pbd+03	6.60	2.70	pbd+03	1.3	0.4	rus03					30.2			30.2			30.2
269.10	-1.10	15.0	pbd+03	8.40	2.70	pbd+03	2.6	0.8	rus03					52.0			52.0			52.0
269.50	-1.50	71.0	pbd+03	1.30	2.70	pbd+03				kout	hh09	9.7	12.9	67.1	8.6	11.8	61.9	8.0	11.7	59.0
270.30	0.80	1.0	pbd+03	4.90	2.70	pbd+03	3.4	0.7	rus03					51.9			51.9			51.9
270.80	0.70	5.4	rus03				1.4	0.3	rus03											
274.00	-1.10	39.0	pbd+03	32.30	2.70	pbd+03	2.7	0.8	rus03					83.5			83.5			83.5
274.70	-1.50	3.1	rus03				4.4	0.9	rus03											
281.60	-1.00	2.0	pbd+03	1.10	2.70	pbd+03				kout	hh09	4.3	8.7	36.9	3.6	8.1	32.8	2.8	8.4	27.7
281.80	-2.00	-5.4	rus03				4.7	1.0	rus03											
282.00	-1.20	21.0	pbd+03	36.20	2.70	pbd+03				kout	hh09	6.6	9.6	157.4	5.8	8.9	144.4	5.5	9.1	139.4
282.20	-1.10	-2.0	pbd+03	11.40	2.70	pbd+03				kout	hh09	3.8	8.5	74.1				1.8	8.3	45.0
282.30	-1.80	-15.0	pbd+03	4.30	2.70	pbd+03	3.1	0.5	rus03					46.8			46.8			46.8
282.50	-1.20	-12.0	rus03				2.0	0.4	rus03					55.0			55.0			55.0
282.70	-1.40	-19.1	rus03				2.0	0.4	rus03											
283.10	-1.00	-1.0	pbd+03	5.10	2.70	pbd+03				kout	hh09	4.2	8.6	60.6				2.4	8.3	41.7
283.30	-1.00	16.0	pbd+03	6.10	2.70	pbd+03				kout	hh09	6.3	9.4	84.3	5.6	8.6	77.9	5.3	8.9	75.1
283.30	-0.60	6.0	pbd+03	3.10	2.70	pbd+03				kout	hh09	5.2	8.9	59.2	4.5	8.2	53.8	4.1	8.5	50.5
283.50	-1.00	-3.0	pbd+03	8.90	2.70	pbd+03	3.3	0.7	rus03					62.1			62.1			62.1
284.00	-0.90	3.8	pbd+03	16.80	2.70	pbd+03	5.5	0.25	rus03					107.9			107.9			107.9
284.10	-0.40	-16.0	pbd+03	8.50	2.70	pbd+03				ktan	hh09	2.1	8.2	45.3	1.9	7.8	42.4	2.1	8.2	45.3
284.30	0.40	1.0	pbd+03	3.40	2.70	pbd+03	5.5	0.25	rus03					63.4			63.4			63.4
284.30	-0.30	-0.5	pbd+03	241.40	2.70	pbd+03	5.5	0.25	rus03					262.4			262.4			262.4
284.60	-0.50	5.0	pbd+03	1.30	2.70	pbd+03				kout	hh09	5.4	8.8	45.4	4.7	8.2	41.4	4.3	8.5	39.0
284.60	-0.20	9.0	pbd+03	10.30	2.70	pbd+03				kout	hh09	5.9	9.0	96.1	5.2	8.4	88.3	4.8	8.6	83.7
284.70	0.30	10.0	pbd+03	3.70	2.70	pbd+03				kout	hh09	6.0	9.1	69.1	5.3	8.4	63.6	4.9	8.7	60.4
285.30	-0.10	-2.0	pbd+03	13.30	2.70	pbd+03				kout	hh09	4.7	8.5	89.9				3.2	8.3	69.6
285.30	-0.00	-1.6	pbd+03	20.90	2.70	pbd+03				kout	hh09	4.7	8.6	104.5				3.3	8.3	82.6
286.20	-0.20	-18.0	pbd+03	37.20	2.70	pbd+03	2.6	0.25	rus03					85.4			85.4			85.4
286.40	-1.50	38.0	pbd+03	2.20	2.70	pbd+03				kout	hh09	9.2	10.6	77.2	8.3	9.8	72.1	8.0	9.9	70.3
286.40	-1.30	38.0	pbd+03	3.20	2.70	pbd+03				kout	hh09	9.2	10.6	87.5	8.3	9.8	81.7	8.0	9.9	79.7
286.70	3.00	-13.0	rus03				2.1	0.6	rus03											
286.90	-0.90	-20.0	pbd+03	15.00	2.70	pbd+03	2.6	0.25	rus03					63.1			63.1			63.1
287.20	-0.70	-22.4	pbd+03	15.10	2.70	pbd+03				ktan	hh09	2.5	8.1	61.6	2.4	7.6	59.9	2.5	8.0	61.6
287.20	0.10	-25.0	pbd+03	6.70	2.70	pbd+03	2.6	0.25	rus03					48.2			48.2			48.2
287.20	0.40	-18.0	pbd+03	3.50	2.70	pbd+03	2.6	0.25	rus03					38.8			38.8			38.8
287.30	-0.90	-17.0	pbd+03	16.10	2.70	pbd+03				ktan	hh09	2.5	8.1	62.9	2.4	7.6	61.2	2.5	8.0	62.9
287.40	-0.60	-17.7	pbd+03	147.60	2.70	pbd+03	2.6	0.25	rus03					135.1			135.1			135.1
287.50	-0.60	-19.6	pbd+03	93.80	2.70	pbd+03	2.6	0.25	rus03					116.2			116.2			116.2
287.60	-0.90	-24.0	pbd+03	29.80	2.70	pbd+03	2.6	0.25	rus03					79.3			79.3			79.3
287.70	-0.60	-26.0	pbd+03	11.10	2.70	pbd+03				ktan	hh09	2.6	8.1	57.0	2.4	7.6	54.0	2.6	8.0	57.0
287.80	-0.80	-21.3	pbd+03	3.30	2.70	pbd+03				ktan	hh09	2.6	8.1	38.1	2.4	7.6	36.1	2.6	8.0	38.1
287.90	-0.90	-20.7	pbd+03	5.20	2.70	pbd+03				ktan	hh09	2.6	8.1	44.3	2.5	7.6	43.2	2.6	8.0	44.3
287.90	-0.80	-25.8	pbd+03	54.10	2.70	pbd+03				ktan	hh09	2.6	8.1	96.7	2.5	7.6	94.2	2.6	8.0	96.7
288.00	-0.80	-26.0	pbd+03	60.60	2.70	pbd+03	2.6	0.25	rus03					100.4			100.4			100.4
288.20	-2.90	-7.4	rus03				3.1	0.9	rus03											
289.10	-0.40	23.2	pbd+03	14.00	2.70	pbd+03	8.0	0.5	rus03					130.4			130.4			130.4
289.50	0.20	-23.0	rus03				2.9	0.2	rus03											
289.80	-1.20	22.0	pbd+03	19.80	2.70	pbd+03	8.0	0.5	rus03					146.3			146.3			146.3
289.80	-1.10	21.9	pbd+03	45.00	2.70	pbd+03	8.0	0.5	rus03					192.4			192.4			192.4
289.90	-0.80	22.0	pbd+03	5.00	2.70	pbd+03	8.0	0.5	rus03					92.5			92.5			92.5
290.40	-2.90	-15.0	rus03				4.2	0.5	rus03					52.0			52.0			52.0
290.40	1.50	-19.0	rus03				2.7	0.25	rus03											
290.50	-0.80	22.0	pbd+03	4.00	2.70	pbd+03	8.0	0.5	rus03					85.9			85.9			85.9
290.60	0.30	-28.0	pbd+03	4.00	2.70	pbd+03	2.8	0.25	rus03					42.6			42.6			42.6
291.10	-0.80	17.0	pbd+03	4.80	2.70	pbd+03	7.9	0.25	rus03					90.5			90.5			90.5
291.20	-0.30	9.0	pbd+03	5.00	2.70	pbd+03				kout	hh09	7.4	9.0	87.8	6.7	8.4	82.2	6.5	8.6	80.5
291.30	-0.70	-24.5	pbd+03	95.00	2.70	pbd+03	2.7	0.2	rus03					119.6			119.6			119.6
291.50	-0.10	6.0	pbd+03	4.00	2.70	pbd+03				kout	hh09	7.2	8.9	80.0	6.5	8.2	74.7	6.3	8.5	73.2
291.60	-0.50	10.0	pbd+03	238.00	2.70	pbd+03	7.9	0.25	rus03					332.4			332.4			332.4

Table A.1. continued.

l ($^{\circ}$) (1)	b ($^{\circ}$) (2)	V_{lsr} km s^{-1} (3)	Ref. (4)	S Jy (5)	Freq GHz (6)	Ref. (7)	d kpc (8)	d_{erro} kpc (9)	Ref. (10)	Mark (11)	Ref. (12)	$D_{8.5}$ kpc (13)	$R_{8.5}$ kpc (14)	$U_{8.5}$ pc cm^{-2} (15)	$D_{8.0}$ kpc (16)	$R_{8.0}$ kpc (17)	$U_{8.0}$ pc cm^{-2} (18)	$D_{8.4}$ kpc (19)	$R_{8.4}$ kpc (20)	$U_{8.4}$ pc cm^{-2} (21)
291.90	-0.70	25.2	pbd+03	2.90	2.70	pbd+03				kout	hh09	9.2	9.9	84.7	8.3	9.1	79.1	8.1	9.3	77.8
291.90	-1.00	15.0	pbd+03	6.00	2.70	pbd+03	7.9	0.25	rus03					97.5			97.5			97.5
292.30	-4.90	-3.0	rus03				3.3	1.0	rus03					18.0			18.0			18.0
292.40	1.60	-22.4	rus03				2.3	0.7	rus03											
293.00	-1.00	66.0	pbd+03	2.00	2.70	pbd+03				kout	hh09	13.7	13.0	97.6	12.4	11.9	91.3	12.0	11.7	89.3
293.60	-1.30	-27.0	pbd+03	5.00	2.70	pbd+03	2.5	0.5	rus03					42.6			42.6			42.6
294.80	-1.80	-18.0	pbd+03	19.30	2.70	pbd+03	2.2	0.25	rus03					61.4			61.4			61.4
295.10	-0.60	38.0	pbd+03	22.00	2.70	pbd+03				kout	hh09	11.1	10.8	188.6	10.1	9.9	177.1	10.0	10.0	175.9
295.10	-1.60	-22.0	pbd+03	12.50	2.70	pbd+03	2.2	0.25	rus03					53.1			53.1			53.1
295.20	-0.60	51.1	pbd+03	20.00	2.70	pbd+03				kout	hh09	12.5	11.8	197.7	11.4	10.8	185.9	11.1	10.7	182.6
295.80	-0.20	17.0	pbd+03	3.10	2.70	pbd+03				kout	hh09	9.3	9.5	87.2	8.5	8.7	82.1	8.4	9.0	81.5
296.60	-1.00	25.0	pbd+03	3.00	2.70	pbd+03				kout	hh09	10.2	9.9	91.7	9.3	9.2	86.2	9.2	9.3	85.6
297.00	0.00	-28.0	rus03				2.5	0.4	rus03											
297.50	-0.80	23.0	pbd+03	4.00	2.70	pbd+03				kout	hh09	10.2	9.8	101.0	9.3	9.1	95.0	9.3	9.3	95.0
297.70	-1.00	26.0	pbd+03	1.90	2.70	pbd+03				kout	hh09	10.6	10.0	80.8	9.6	9.2	75.6	9.6	9.4	75.6
298.20	-0.80	16.0	pbd+03	3.00	2.70	pbd+03				kout	hh09	9.8	9.4	89.3	8.9	8.7	83.7	8.9	8.9	83.7
298.20	-0.30	30.8	pbd+03	40.00	2.70	pbd+03				kout	hh09	11.1	10.3	230.1	10.2	9.5	217.5	10.1	9.6	216.1
298.60	-0.10	23.0	pbd+03	13.00	2.70	pbd+03				kout	hh09	10.5	9.8	152.5	9.6	9.1	143.7	9.6	9.3	143.7
298.80	-0.30	25.0	pbd+03	17.00	2.70	pbd+03				kout	hh09	10.7	10.0	168.8	9.8	9.2	159.2	9.8	9.4	159.2
298.90	-0.40	24.5	pbd+03	52.00	2.70	pbd+03				kout	hh09	10.7	9.9	245.1	9.8	9.2	231.2	9.7	9.3	229.6
299.00	0.10	23.0	pbd+03	2.80	2.70	pbd+03				kout	hh09	10.6	9.9	92.0	9.7	9.1	86.7	9.6	9.3	86.1
299.40	-0.30	-37.0	pbd+03	0.80	2.70	pbd+03	5.4	0.6	rus03					38.6			38.6			38.6
300.50	-0.20	26.0	pbd+03	2.40	2.70	pbd+03				kout	hh09	11.2	10.1	90.6	10.3	9.3	85.7	10.2	9.4	85.1
301.00	1.20	-46.8	pbd+03	3.00	2.70	pbd+03				ktan	hh09	4.4	7.3	52.4	4.1	6.9	50.0	4.3	7.2	51.6
301.10	1.00	-45.1	pbd+03	4.00	2.70	pbd+03				ktan	hh09	4.4	7.3	57.6	4.1	6.9	55.0	4.3	7.2	56.7
301.80	1.10	-42.0	pbd+03	4.60	2.70	pbd+03				ktan	hh09	4.5	7.2	61.3	4.2	6.8	58.5	4.4	7.1	60.4
302.00	-0.00	-27.0	pbd+03	1.40	2.70	pbd+03	2.1	0.6	rus03					24.8			24.8			24.8
302.10	0.30	-24.0	rus03				2.1	0.2	rus03											
302.50	-0.70	31.0	pbd+03	5.40	2.70	pbd+03				kout	hh09	12.2	10.4	125.7	11.1	9.6	118.0	11.1	9.7	118.0
302.70	0.20	-33.0	pbd+03	5.50	2.70	pbd+03	2.1	0.6	rus03					39.1			39.1			39.1
302.80	1.30	-32.0	pbd+03	2.00	2.70	pbd+03	2.1	0.6	rus03					27.9			27.9			27.9
303.10	-0.90	26.0	pbd+03	3.10	2.70	pbd+03				kout	hh09	11.8	10.1	102.2	10.8	9.3	96.3	10.9	9.5	96.9
303.50	-0.70	32.0	pbd+03	9.00	2.70	pbd+03				kout	hh09	12.5	10.5	151.5	11.4	9.7	142.5	11.4	9.8	142.5
303.90	-0.10	26.0	pbd+03	0.30	2.70	pbd+03				kout	hh09	12.0	10.1	47.4	11.0	9.3	44.7	11.0	9.5	44.7
305.20	-0.40	-45.0	pbd+03	6.00	2.70	pbd+03				ktan	hh09	4.9	6.9	70.9	4.6	6.5	68.0	4.8	6.9	69.9
305.40	0.20	-38.7	pbd+03	53.30	2.70	pbd+03				kfar	pdd04	6.2	7.0	171.8	5.5	6.6	158.6	5.6	7.0	160.5
305.50	0.00	-44.7	pbd+03	28.50	2.70	pbd+03				ktan	hh09	4.9	6.9	119.2	4.6	6.5	114.3	4.9	6.8	119.2
305.60	-0.00	-44.9	pbd+03	29.00	2.70	pbd+03				ktan	hh09	4.9	6.9	119.9	4.7	6.5	116.6	4.9	6.8	119.9
305.70	1.60	-58.0	pbd+03	5.90	2.70	pbd+03				ktan	hh09	5.0	6.9	71.4	4.7	6.5	68.5	4.9	6.8	70.4
305.80	0.10	-43.0	pbd+03	5.00	2.70	pbd+03				ktan	hh09	5.0	6.9	67.6	4.7	6.5	64.9	4.9	6.8	66.7
306.30	0.10	-37.0	pbd+03	2.70	2.70	pbd+03	2.3	0.25	rus03					32.8			32.8			32.8
306.32	-0.36	-16.0	ch87	2.10	5.00	ch87				kfar	ch87	8.9	7.9	75.9	8.2	7.3	71.9	8.4	7.7	73.0
308.09	-0.43	-17.0	ch87	1.00	5.00	ch87				kfar	ch87	9.3	7.8	61.0	8.6	7.3	57.9	8.8	7.6	58.8
308.60	0.60	-50.0	pbd+03	12.90	2.70	pbd+03	4.0	0.6	rus03					79.9			79.9			79.9
308.70	0.60	-46.4	pbd+03	21.00	2.70	pbd+03				knear	pdd04	4.2	6.7	97.1	4.2	6.3	97.1	4.4	6.7	100.2
309.10	0.20	-47.0	pbd+03	4.00	2.70	pbd+03	4.0	0.6	rus03					54.1			54.1			54.1
309.50	-0.70	-43.0	pbd+03	3.00	2.70	pbd+03	4.0	0.6	rus03					49.1			49.1			49.1
309.90	0.40	-55.0	pbd+03	5.00	2.70	pbd+03	4.0	0.6	rus03					58.3			58.3			58.3
310.20	-0.10	4.0	pbd+03	6.00	2.70	pbd+03				kout	hh09	11.5	8.9	125.2	10.6	8.2	118.6	10.9	8.4	120.8
311.00	0.40	-51.0	pbd+03	4.00	2.70	pbd+03	2.9	0.9	rus03					43.7			43.7			43.7
311.10	-0.30	36.0	pbd+03	3.00	2.70	pbd+03				kout	hh09	14.7	11.1	117.0	13.5	10.2	110.5	13.6	10.2	111.1
311.20	0.80	-57.0	pbd+03	2.00	2.70	pbd+03				ktan	hh09	5.6	6.4	53.7	5.3	6.0	51.8	5.5	6.3	53.1
311.30	-0.00	-52.0	pbd+03	5.20	2.70	pbd+03	2.9	0.9	rus03					47.6			47.6			47.6
311.50	0.40	-61.9	pbd+03	10.00	2.70	pbd+03				ktan	hh09	5.6	6.4	91.9	5.3	6.0	88.6	5.6	6.3	91.9
311.60	-0.60	32.0	pbd+03	3.00	2.70	pbd+03				kout	hh09	14.4	10.8	115.4	13.2	9.9	108.9	13.3	10.0	109.4
311.60	0.30	-62.3	pbd+03	4.30	2.70	pbd+03				ktan	hh09	5.6	6.4	69.3	5.3	6.0	66.8	5.6	6.3	69.3
311.90	0.10	-47.2	pbd+03	28.00	2.70	pbd+03				kfar	pdd04	7.7	6.6	160.1	7.1	6.2	151.7	7.5	6.6	157.3
311.90	0.20	-45.3	pbd+03	9.70	2.70	pbd+03				kfar	pdd04	7.9	6.7	114.4	7.3	6.3	108.5	7.7	6.6	112.5
312.70	-0.40	-29.0	rus03				1.5	0.4	rus03											
313.45	0.18	-5.0	ch87	4.30	5.00	ch87				kfar	ch87	11.5	8.4	114.4	10.6	7.8	108.4	10.9	8.0	110.4
314.10	0.50	-67.0	pbd+03	5.00	2.70	pbd+03				ktan	hh09	5.9	6.1	75.5	5.6	5.7	72.9	5.9	6.0	75.5
315.30	-0.30	16.0	pbd+03	1.10	2.70	pbd+03				kout	hh09	13.6	9.7	79.5	12.6	8.9	75.6	12.9	9.1	76.7
316.40	-0.80	16.0	pbd+03	0.20	2.70	pbd+03				kout	hh09	13.9	9.7	45.7	12.8	8.9	43.3	13.1	9.1	43.9
316.40	-0.40	3.0	pbd+03	5.00	2.70	pbd+03				kout	hh09	12.7	8.8	125.9	11.8	8.2	119.9	12.1	8.4	121.9

Table A.1. continued.

l	b	V_{lsr}	Ref.	S	Freq	Ref.	d	d_{erro}	Ref.	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$U_{8.5}$	$D_{8.0}$	$R_{8.0}$	$U_{8.0}$	$D_{8.4}$	$R_{8.4}$	$U_{8.4}$
(°)	(°)	km s ⁻¹		Jy	GHz		kpc	kpc				kpc	kpc	pc cm ⁻²	kpc	kpc	pc cm ⁻²	kpc	kpc	pc cm ⁻²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
316.80	-0.10	-36.1	pbd+03	37.30	2.70	pbd+03				knear	pdd04	2.5	6.9	83.2	2.4	6.5	81.0	2.6	6.9	85.4
316.80	-0.00	-36.0	pbd+03	34.00	2.70	pbd+03	3.6	1.1	rus03					102.9			102.9			102.9
317.00	0.30	-48.8	pbd+03	17.00	2.70	pbd+03	3.6	1.1	rus03					81.7			81.7			81.7
317.30	0.20	-46.8	pbd+03	7.10	2.70	pbd+03				kfar	gg76	9.2	6.5	114.1	8.6	6.1	109.1	9.1	6.4	113.3
317.30	0.30	-51.0	pbd+03	12.00	2.70	pbd+03	3.6	1.1	rus03					72.7			72.7			72.7
317.60	-0.40	-38.0	pbd+03	4.00	2.70	pbd+03	3.6	1.1	rus03					50.4			50.4			50.4
318.00	-0.80	-37.0	pbd+03	12.90	2.70	pbd+03	3.6	1.1	rus03					74.5			74.5			74.5
318.10	-0.50	3.0	pbd+03	1.10	2.70	pbd+03				kout	hh09	13.1	8.8	77.6	12.1	8.2	73.6	12.5	8.4	75.2
319.20	-0.40	-24.7	pbd+03	12.30	2.70	pbd+03				kfar	gg76	11.2	7.3	156.3	10.4	6.8	148.8	10.9	7.1	153.5
319.40	-0.00	-14.1	pbd+03	12.00	2.70	pbd+03				kfar	gg76	12.0	7.8	162.3	11.2	7.3	155.0	11.6	7.5	158.7
319.87	0.77	-38.0	ch87	1.60	5.00	ch87				knear	ch87	2.6	6.7	30.5	2.5	6.3	29.7	2.6	6.7	30.5
320.11	-0.51	-13.0	ch87	4.00	5.00	ch87				kfar	ch87	12.2	7.9	116.1	11.4	7.3	111.0	11.8	7.6	113.5
320.20	0.80	-36.0	pbd+03	10.00	2.70	pbd+03				knear	pdd04	2.4	6.8	52.2	2.4	6.4	52.2	2.5	6.8	53.6
320.24	0.42	-31.0	ch87	2.30	5.00	ch87				knear	ch87	2.1	7.0	29.9	2.0	6.6	28.9	2.2	7.0	30.8
320.30	-0.20	-9.2	pbd+03	12.00	2.70	pbd+03				kfar	gg76	12.5	8.1	166.8	11.7	7.5	159.6	12.1	7.7	163.2
320.38	0.14	-3.0	ch87	3.60	5.00	ch87				kfar	ch87	13.0	8.4	117.0	12.1	7.8	111.5	12.5	8.1	114.0
320.40	-1.00	-50.0	rus03				3.3	0.25	rus03					113.0			113.0			113.0
320.71	0.20	-7.0	ch87	14.30	5.00	ch87				kfar	ch87	12.8	8.2	183.3	11.9	7.6	174.6	12.3	7.8	178.5
321.00	-0.50	-61.3	pbd+03	11.10	2.70	pbd+03				knear	gg76	4.1	5.9	77.3	3.9	5.5	74.8	4.0	6.0	76.0
321.10	-0.50	-55.7	pbd+03	21.00	2.70	pbd+03				knear	pdd04	3.7	6.1	89.3	3.5	5.7	86.1	3.6	6.1	87.7
322.20	0.60	-51.9	pbd+03	14.00	2.70	pbd+03				knear	pdd04	3.4	6.2	73.7	3.3	5.8	72.2	3.4	6.2	73.7
324.10	0.20	-91.0	pbd+03	4.30	2.70	pbd+03				ktan	hh09	6.9	5.0	79.7						
324.20	0.10	-89.2	pbd+03	4.80	2.70	pbd+03				knear	pdd04	6.5	5.0	79.4	5.8	4.7	73.6	5.6	5.1	71.9
325.00	-0.60	25.0	pbd+03	3.50	2.70	pbd+03				kout	hh09	16.7	10.9	134.1	15.4	10.0	127.0	15.6	10.0	128.1
326.20	1.00	-42.0	pbd+03	6.00	2.70	pbd+03	2.3	0.4	rus03					42.8			42.8			42.8
326.30	0.70	-45.0	pbd+03	14.00	2.70	pbd+03	2.3	0.4	rus03					56.8			56.8			56.8
326.40	0.90	-39.0	pbd+03	16.00	2.70	pbd+03	2.3	0.4	rus03					59.4			59.4			59.4
326.50	0.90	-41.3	pbd+03	9.20	2.70	pbd+03				knear	gg76	2.6	6.5	53.6	2.7	6.0	55.0	2.8	6.4	56.3
326.60	0.60	-44.0	pbd+03	37.10	2.70	pbd+03	2.3	0.4	rus03					78.6			78.6			78.6
326.60	-1.00	-21.0	rus03				0.9	0.3	rus03											
326.70	0.60	-44.5	pbd+03	50.00	2.70	pbd+03				knear	pdd04	3.0	6.2	103.6	2.8	5.8	98.9	2.9	6.3	101.3
327.30	-0.60	-48.8	pbd+03	71.60	2.70	pbd+03				knear	pdd04	3.2	6.0	121.9	3.1	5.7	119.3	3.1	6.1	119.3
327.30	-0.50	-48.0	pbd+03	54.00	2.70	pbd+03				knear	pdd04	3.2	6.1	111.0	3.0	5.7	106.3	3.1	6.1	108.7
327.50	-0.80	-37.0	rus03				2.8	0.5	rus03											
328.00	-0.10	-44.8	pbd+03	8.00	2.70	pbd+03				knear	pdd04	3.0	6.2	56.3	2.9	5.8	55.0	3.0	6.2	56.3
328.00	-0.60	-45.6	rus03				3.0	0.4	rus03											
328.10	-0.80	-18.5	rus03				1.1	0.3	rus03											
328.20	-2.00	-25.0	rus03				0.8	0.2	rus03											
328.30	0.40	-96.6	pbd+03	8.00	2.70	pbd+03				kfar	pdd04	8.3	4.6	110.9	8.0	4.4	108.2	8.7	4.7	114.4
328.30	-0.60	-43.0	pbd+03	3.00	2.70	pbd+03	3.3	0.7	rus03					43.2			43.2			43.2
328.60	-0.50	-51.0	pbd+03	9.00	2.70	pbd+03				knear	pdd04	3.4	5.9	63.6	3.2	5.5	61.1	3.3	6.0	62.3
329.40	0.10	-107.7	pbd+03	5.00	2.70	pbd+03				ktan	hh09	7.3	4.3	87.0						
330.90	-0.40	-56.1	pbd+03	13.20	2.70	pbd+03				knear	pdd04	3.7	5.6	76.5	3.5	5.3	73.7	3.5	5.7	73.7
331.30	-0.30	-64.2	pbd+03	17.00	2.70	pbd+03				knear	pdd04	4.1	5.3	89.1	3.9	5.0	86.2	3.9	5.4	86.2
331.50	-0.10	-88.8	pbd+03	47.00	2.70	pbd+03				kfar	pdd04	9.6	4.6	220.4	9.1	4.3	212.7	9.8	4.7	223.5
332.10	-0.40	-55.0	pbd+03	12.00	2.70	pbd+03	3.8	0.5	rus03					75.4			75.4			75.4
332.15	-0.45	-55.0	ch87	14.50	5.00	ch87				knear	ch87	3.7	5.5	80.5	3.4	5.2	76.1	3.5	5.6	77.6
332.50	-0.10	-53.0	pbd+03	2.50	2.70	pbd+03	3.8	0.5	rus03					44.7			44.7			44.7
332.70	-0.60	-47.4	pbd+03	52.00	2.70	pbd+03	3.8	0.5	rus03					122.9			122.9			122.9
332.80	-1.40	-41.0	pbd+03	3.50	2.70	pbd+03	3.8	0.5	rus03					50.0			50.0			50.0
332.80	-0.60	-57.1	pbd+03	16.40	2.70	pbd+03	3.8	0.5	rus03					83.7			83.7			83.7
333.00	-0.40	-53.8	pbd+03	42.20	2.70	pbd+03				kfar	pdd04	11.5	5.5	239.9	10.9	5.2	231.5	11.5	5.5	239.9
333.00	0.80	-52.0	pbd+03	5.00	2.70	pbd+03	3.8	0.5	rus03					56.3			56.3			56.3
333.00	2.00	-20.0	pbd+03	6.00	2.70	pbd+03	1.7	0.2	rus03					35.0			35.0			35.0
333.10	-0.40	-54.5	pbd+03	52.00	2.70	pbd+03	3.8	0.5	rus03					122.9			122.9			122.9
333.30	-0.40	-50.1	pbd+03	60.00	2.70	pbd+03	3.8	0.5	rus03					128.9			128.9			128.9
333.60	-0.20	-47.6	pbd+03	122.00	2.70	pbd+03				knear	pdd04	3.3	5.7	148.7	3.1	5.4	142.6	3.2	5.8	145.7
333.70	-0.50	-49.9	pbd+03	5.60	2.70	pbd+03	3.8	0.5	rus03					58.5			58.5			58.5
334.70	-0.70	16.0	pbd+03	1.50	2.70	pbd+03				kout	hh09	17.5	10.5	104.3	16.2	9.6	99.1	16.6	9.6	100.7
335.80	-0.20	-52.1	pbd+03	9.90	2.70	pbd+03				knear	gg76	3.7	5.4	69.5	3.4	5.1	65.7	3.5	5.5	67.0
336.40	-0.20	-87.2	pbd+03	35.00	2.70	pbd+03				knear	pdd04	5.3	4.2	134.5	4.9	4.0	127.6	4.9	4.4	127.6
336.50	-1.50	-24.9	pbd+03	6.00	2.70	pbd+03	1.4	0.25	rus03					30.8			30.8			30.8
336.80	0.00	-79.0	pbd+03	70.00	2.70	pbd+03				kfar	pdd04	10.7	4.4	270.6	10.1	4.2	260.4	10.8	4.5	272.3
336.90	-0.10	-73.1	pbd+03	20.50	2.70	pbd+03				knear	gg76	4.7	4.6	103.8	4.4	4.3	99.3	4.4	4.8	99.3

Table A.1. continued.

l (°)	b (°)	V_{lsr} km s ⁻¹	Ref.	S Jy	Freq GHz	Ref.	d kpc	d_{erro} kpc	Ref.	Mark	Ref.	$D_{8.5}$ kpc	$R_{8.5}$ kpc	$U_{8.5}$ pc cm ⁻²	$D_{8.0}$ kpc	$R_{8.0}$ kpc	$U_{8.0}$ pc cm ⁻²	$D_{8.4}$ kpc	$R_{8.4}$ kpc	$U_{8.4}$ pc cm ⁻²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
337.10	-0.20	-72.8	pbd+03	30.00	2.70	pbd+03				kfar	pdd04	11.0	4.5	207.8	10.4	4.3	200.2	11.1	4.6	209.1
337.60	0.00	-54.8	pbd+03	6.50	2.70	pbd+03				kfar	gg76	11.8	5.1	130.8	11.2	4.8	126.3	11.8	5.1	130.8
337.90	-0.50	-40.2	pbd+03	16.00	2.70	pbd+03				knear	pdd04	3.1	5.7	72.4	2.9	5.4	69.3	3.0	5.8	70.8
338.00	-0.10	-47.9	pbd+03	50.00	2.70	pbd+03				kfar	gg76	12.2	5.4	264.0	11.5	5.1	253.8	12.2	5.3	264.0
338.10	-0.10	-41.7	pbd+03	7.80	2.70	pbd+03				kfar	gg76	12.5	5.6	144.4	11.8	5.3	139.0	12.5	5.6	144.4
338.40	0.00	-36.9	pbd+03	49.60	2.70	pbd+03				kfar	gg76	12.8	5.8	271.9	12.1	5.5	261.9	12.7	5.8	270.5
338.70	0.60	-62.0	pbd+03	4.20	2.70	pbd+03	5.2	1.6	rus03					65.5			65.5			65.5
338.90	0.60	-63.0	pbd+03	11.00	2.70	pbd+03	5.2	1.6	rus03					90.3			90.3			90.3
338.90	-0.10	-40.0	pbd+03	3.00	2.70	pbd+03	2.7	0.6	rus03					37.8			37.8			37.8
339.10	-0.40	-37.0	pbd+03	4.00	2.70	pbd+03	2.7	0.6	rus03					41.6			41.6			41.6
339.58	-0.12	-30.0	ch87	3.40	5.00	ch87				kfar	ch87	13.3	6.1	116.5	12.5	5.8	111.8	13.2	6.0	115.9
340.30	-0.20	-43.2	pbd+03	9.00	2.70	pbd+03				kfar	gg76	12.5	5.4	151.5	11.8	5.1	145.8	12.5	5.3	151.5
340.80	-1.00	-24.9	pbd+03	18.00	2.70	pbd+03	2.5	0.4	rus03					65.3			65.3			65.3
341.00	-0.10	-38.0	pbd+03	7.00	2.70	pbd+03	3.4	1.0	rus03					58.5			58.5			58.5
341.30	-0.30	-38.0	pbd+03	5.60	2.70	pbd+03	3.4	1.0	rus03					54.3			54.3			54.3
341.96	0.20	-8.0	ch87	2.80	5.00	ch87				kfar	ch87	15.3	7.7	119.9	14.3	7.2	114.6	14.9	7.3	117.8
343.50	-0.00	-30.2	pbd+03	15.00	2.70	pbd+03				kfar	gg76	13.3	5.7	187.2	12.6	5.4	180.6	13.2	5.6	186.3
343.90	-4.70		rus03				2.0	0.6	rus03											
345.00	1.50	-14.8	pbd+03	91.00	2.70	pbd+03	1.9	0.25	rus03					93.3			93.3			93.3
345.20	1.00	-9.2	pbd+03	23.10	2.70	pbd+03	1.9	0.25	rus03					59.1			59.1			59.1
345.30	1.50	-15.3	pbd+03	17.10	2.70	pbd+03	1.9	0.25	rus03					53.4			53.4			53.4
345.40	-0.90	-23.0	pbd+03	33.00	2.70	pbd+03				knear	pdd04	2.6	6.0	82.0	2.5	5.7	79.9	2.5	6.1	79.9
345.40	1.40	-14.8	pbd+03	42.80	2.70	pbd+03	1.9	0.25	rus03					72.6			72.6			72.6
345.49	0.31	-22.3	swa+04	2.47	4.86	swa+04				knear	swa+04	2.6	6.1	35.2	2.4	5.7	33.4	2.5	6.1	34.3
345.50	0.30	-20.0	pbd+03	4.70	2.70	pbd+03	2.0	0.25	rus03					36.0			36.0			36.0
345.50	0.20	-13.0	pbd+03	2.10	2.70	pbd+03	1.9	0.25	rus03					26.6			26.6			26.6
345.55	-0.04	-6.0	ch87	16.00	5.00	ch87				kfar	ch87	15.7	7.7	218.1	14.7	7.2	208.7	15.3	7.4	214.4
345.83	0.04	-10.0	ch87	2.10	5.00	ch87				kfar	ch87	15.2	7.2	108.5	14.2	6.7	103.7	14.9	6.9	107.1
346.50	0.10	2.0	pbd+03	1.00	2.70	pbd+03				kout	hh09	17.0	9.0	89.4	15.9	8.3	85.5	16.4	8.4	87.3
347.70	1.90	-19.0	rus03				2.0	0.6	rus03											
348.20	-1.00	-18.0	pbd+03	12.60	2.70	pbd+03	2.9	0.25	rus03					64.0			64.0			64.0
348.20	0.40	-12.0	rus03	8.30	5.00	ch87	1.3	0.4	rus03	knear	ch87	1.8	6.7	33.3			33.3			33.3
348.23	-0.97	-17.9	swa+04	7.95	4.86	swa+04				kfar	swa+04	14.2	6.1	161.4	13.3	5.7	154.5	14.0	6.0	159.9
348.60	-0.60	-19.0	pbd+03	17.60	2.70	pbd+03	2.9	0.25	rus03					71.5			71.5			71.5
348.70	-1.00	-12.6	pbd+03	39.20	2.70	pbd+03	2.9	0.25	rus03					93.4			93.4			93.4
349.80	-0.60	-25.8	pbd+03	10.40	2.70	pbd+03	2.2	0.3	rus03	knear	gg76	3.5	5.1	49.9			49.9			49.9
349.83	-0.53	-25.7	swa+04	3.50	4.86	swa+04	2.2	0.3	rus03	knear	swa+04	3.5	5.1	35.4			35.4			35.4
350.00	0.20	-5.0	rus03				1.6	0.5	rus03											
350.50	1.00	-10.9	pbd+03	4.00	2.70	pbd+03	1.9	0.2	rus03					32.9			32.9			32.9
351.00	0.70		pbd+03	50.00	2.70	pbd+03	1.9	0.2	rus03					76.4			76.4			76.4
351.20	0.50	-7.1	pbd+03	21.00	2.70	pbd+03	1.9	0.2	rus03					57.2			57.2			57.2
351.40	0.70	-3.1	pbd+03	176.00	2.70	pbd+03	1.9	0.2	rus03					116.3			116.3			116.3
351.40	0.60		pbd+03	190.00	2.70	pbd+03	1.9	0.2	rus03					119.3			119.3			119.3
351.60	-1.30	-14.0	pbd+03	35.30	2.70	pbd+03				knear	pdd04	2.6	5.9	83.9	2.5	5.6	81.7	2.5	6.0	81.7
351.70	-1.20	-13.0	pbd+03	43.00	2.70	pbd+03				knear	gg76	2.5	6.0	87.3	2.4	5.7	85.0	2.4	6.1	85.0
351.70	0.50	-2.3	pbd+03	2.40	2.70	pbd+03	1.9	0.2	rus03					27.8			27.8			27.8
352.40	2.10	-7.0	rus03				1.0	0.2	rus03					40.0			40.0			40.0
352.80	1.30	1.4	pbd+03	14.90	2.70	pbd+03				kout	hh09	17.5	9.1	224.3	16.3	8.4	213.9	16.8	8.4	218.3
353.00	0.90	-4.0	pbd+03	37.20	2.70	pbd+03	2.0	0.25	rus03					71.7			71.7			71.7
353.10	0.40	-3.3	pbd+03	56.70	2.70	pbd+03	2.0	0.25	rus03					82.5			82.5			82.5
353.10	0.70	-3.8	pbd+03	269.00	2.70	pbd+03	2.0	0.25	rus03					138.6			138.6			138.6
353.20	0.90	-4.4	pbd+03	145.20	2.70	pbd+03	2.0	0.25	rus03					112.8			112.8			112.8
353.42	-0.37	-16.1	tlhj08	7.00	2.70	pbd+03				knear	tlhj08	3.4	5.2	58.1	3.1	4.9	56.3	3.2	4.8	56.9
355.10	20.90	4.5	rus03				0.2	0.04	rus03											
355.60	0.80	6.5	rus03				1.2	0.25	rus03											
359.50	-0.60	18.0	rus03				1.5	0.2	rus03					20.0	1.5	6.5	20.0			20.0

References: ab09: Anderson & Bania (2009); ahck02: Araya et al. (2002); bdc01: Blum et al. (2001); brm+08: Brunthaler et al. (2008); cccg+98: Condon et al. (1998); cf08: Crowther & Furness (2008); cor+07: Copetti et al. (2007); ch87: Caswell & Haynes (1987); gg76: Georgelin & Georgelin (1976); GB6: Gregory et al. (1996); hh09: This work; kjb+03: Kolpak et al. (2003); kb94: Kuchar & Bania (1994); lt08: Leahy & Tian (2008); mrm+08: Moscadelli et al. (2008); pbd+03: Paladini et al. (2003); pdd04: Paladini et al. (2004); pmg08: Pandian et al. (2008); rus03: Russeil (2003); rag07: Russeil et al. (2007); rmb+08: Reid et al. (2008); swa+04: Sewilo et al. (2004); tlhj08: Tian et al. (2008); was+03: Watson et al. (2003); PMN: Wright et al. (1994, 1996); Griffith et al. (1994, 1995); xrm+08: Xu et al. (2008); zzz+08: Zhang et al. (2008).

Table A.2. GMCs as tracers of spiral arms. Columns 1 and 2 are the Galactic longitude and latitude; Cols. 3 to 6 list velocity, the luminosity of CO emission line (in unit of $10^3 \text{ K km s}^{-1} \text{ pc}^2$), distance and mass of molecular cloud, which were all taken from the reference given in Col. 8; Col. 7 is the note for distance ambiguity given in this reference, used as the same convention as in Table A.1; Cols. 9 and 10 list the distances to the Sun and to the Galactic center, which are estimated by the velocity and the rotation curve with $R_0 = 8.5 \text{ kpc}$ and $\Theta_0 = 220 \text{ km s}^{-1}$ when the stellar distance is unavailable; Col. 11 gives the mass of molecular clouds re-scaled by the newly estimated distance; Cols. 12–14 are the same as Cols. 9–11 but with $R_0 = 8.0 \text{ kpc}$ and $\Theta_0 = 220 \text{ km s}^{-1}$. Columns 15–17 are the same as Cols. 9–11 but with $R_0 = 8.4 \text{ kpc}$ and $\Theta_0 = 254 \text{ km s}^{-1}$.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
(°)	(°)	km s^{-1}	$10^3 \text{ K km s}^{-1} \text{ pc}^2$	kpc	$10^5 M_{\odot}$			kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
8.00	-0.50	128.00	72.70	10.10	4.435	ktan	srby87									
8.20	0.20	20.00	1402.00	15.90	85.522	kfar	srby87	13.4	5.2	60.74	12.7	4.9	54.56	13.4	5.2	60.74
8.30	-0.10	48.00	50.20	13.20	3.062	kfar	srby87	11.5	3.3	2.32	10.9	3.2	2.09	11.6	3.4	2.36
8.30	-0.30	16.00	28.10	3.20	1.714	knear	srby87	2.9	5.6	1.41	2.7	5.3	1.22	2.8	5.8	1.31
8.40	-0.30	37.00	233.00	5.70	14.213	knear	srby87	4.7	3.9	9.66	4.4	3.7	8.47	4.4	4.1	8.47
8.50	-1.00	16.00	106.00	3.20	6.466	knear	srby87	2.9	5.7	5.31	2.7	5.4	4.60	2.7	5.8	4.60
8.70	0.60	22.00	8.60	4.00	0.525	knear	srby87	3.5	5.1	0.40	3.2	4.8	0.34	3.3	5.3	0.36
9.30	0.70	15.00	2.00	2.80	0.122	knear	srby87	2.6	6.0	0.11	2.4	5.6	0.09	2.4	6.1	0.09
9.30	0.00	31.00	15.60	4.80	0.952	knear	srby87	4.1	4.5	0.69	3.8	4.3	0.60	3.9	4.7	0.63
9.60	0.80	26.00	53.90	4.20	3.288	knear	srby87	3.6	4.9	2.42	3.4	4.7	2.15	3.4	5.1	2.15
9.80	-0.75	28.00	18.30	4.40	1.116	knear	srby87	3.8	4.8	0.83	3.5	4.6	0.71	3.6	5.0	0.75
10.00	-0.04	32.00	18.30	4.70	1.116	knear	srby87	4.0	4.6	0.81	3.7	4.4	0.69	3.8	4.8	0.73
10.80	-0.80	29.00	38.00	4.20	2.318	knear	srby87	3.7	5.0	1.80	3.4	4.7	1.52	3.5	5.1	1.61
11.10	-0.50	34.00	578.00	4.80	35.258	kfar	srby87	12.7	4.7	246.82	12.0	4.4	220.36	12.8	4.7	250.72
11.40	-0.30	49.00	17.90	6.10	1.092	knear	srby87	4.8	3.9	0.68	4.4	3.8	0.57	4.5	4.2	0.59
11.60	-0.40	32.00	16.70	4.30	1.019	knear	srby87	3.7	4.9	0.75	3.5	4.6	0.68	3.5	5.1	0.68
11.70	-0.30	47.00	12.30	5.60	0.750	knear	srby87	4.6	4.1	0.51	4.3	3.9	0.44	4.3	4.3	0.44
11.90	0.80	26.00	22.40	3.60	1.366	knear	srby87	3.2	5.4	1.08	3.0	5.1	0.95	3.0	5.6	0.95
11.90	-0.10	42.00	84.60	14.40	5.161	kfar	srby87	12.3	4.4	3.77	11.6	4.2	3.35	12.4	4.4	3.83
12.00	-0.60	35.00	29.50	4.50	1.799	knear	srby87	3.9	4.8	1.35	3.6	4.5	1.15	3.7	5.0	1.22
12.20	-0.10	23.00	83.00	16.30	5.063	kfar	srby87	13.7	5.7	3.58	12.9	5.4	3.17	13.6	5.6	3.52
12.40	-0.70	25.00	3.20	3.40	0.195	knear	srby87	3.1	5.5	0.16	2.9	5.2	0.14	2.9	5.7	0.14
12.70	0.70	18.00	28.10	2.50	1.714	knear	srby87	2.4	6.2	1.58	2.2	5.8	1.33	2.3	6.3	1.45
12.70	-0.10	56.00	45.70	13.60	2.788	kfar	srby87	11.7	3.9	2.06	11.1	3.7	1.86	11.8	4.0	2.10
12.80	-0.20	32.00	278.00	4.10	16.958	knear	srby87	3.5	5.1	12.36	3.3	4.8	10.99	3.3	5.3	10.99
12.90	0.50	35.00	10.50	4.30	0.640	knear	srby87	3.7	4.9	0.47	3.5	4.7	0.42	3.5	5.1	0.42
13.00	0.40	32.00	35.30	4.00	2.153	knear	srby87	3.5	5.1	1.65	3.3	4.9	1.47	3.3	5.3	1.47
13.00	-0.10	47.00	140.00	5.30	8.540	knear	srby87	4.4	4.3	5.89	4.1	4.1	5.11	4.2	4.5	5.36
13.70	-0.10	48.00	31.60	5.20	1.928	knear	srby87	4.4	4.4	1.38	4.1	4.2	1.20	4.1	4.6	1.20
13.90	0.90	27.00	13.20	3.30	0.805	knear	srby87	3.0	5.6	0.67	2.8	5.3	0.58	2.9	5.8	0.62
13.90	0.30	49.00	47.20	5.20	2.879	knear	srby87	4.4	4.4	2.06	4.1	4.2	1.79	4.1	4.6	1.79
14.00	-0.10	26.00	7.60	3.20	0.464	knear	srby87	2.9	5.7	0.38	2.7	5.4	0.33	2.8	5.8	0.36
14.00	-0.60	18.00	195.00	2.40	11.895	knear	srby87	2.2	6.4	10.00	2.1	6.0	9.11	2.2	6.4	10.00
14.20	-0.20	39.00	297.00	4.40	18.117	knear	srby87	3.8	4.9	13.51	3.5	4.6	11.46	3.6	5.1	12.13
14.60	-0.60	37.00	17.90	4.20	1.092	knear	srby87	3.6	5.1	0.80	3.4	4.8	0.72	3.4	5.2	0.72
15.00	-0.70	20.00	25.10	2.50	1.531	knear	srby87	2.3	6.3	1.30	2.2	5.9	1.19	2.2	6.4	1.19
15.00	0.00	25.00	3.50	3.00	0.213	knear	srby87	2.7	5.9	0.17	2.6	5.6	0.16	2.6	6.0	0.16
15.10	0.90	43.00	4.80	4.60	0.293	knear	srby87	3.9	4.8	0.21	3.7	4.6	0.19	3.7	5.0	0.19
15.30	0.00	32.00	18.10	3.60	1.104	knear	srby87	3.2	5.5	0.87	3.0	5.2	0.77	3.1	5.6	0.82
15.70	-0.20	57.00	13.20	5.40	0.805	knear	srby87	4.6	4.3	0.58	4.2	4.1	0.49	4.3	4.5	0.51
15.80	-0.60	48.00	18.30	4.80	1.116	knear	srby87	4.1	4.7	0.81	3.8	4.4	0.70	3.9	4.9	0.74
15.90	-0.60	19.00	16.00	2.20	0.976	knear	srby87	2.1	6.5	0.89	2.0	6.1	0.81	2.1	6.5	0.89
15.90	0.30	19.00	4.20	2.20	0.256	knear	srby87	2.1	6.5	0.23	2.0	6.1	0.21	2.1	6.5	0.23
15.90	-1.00	58.00	7.30	5.50	0.445	knear	srby87	4.6	4.3	0.31	4.3	4.1	0.27	4.3	4.5	0.27
16.20	-0.80	56.00	3.20	5.30	0.195	knear	srby87	4.5	4.4	0.14	4.1	4.2	0.12	4.2	4.6	0.12
16.25	-0.05	48.00	143.00	14.50	8.723	kfar	srby87	12.3	4.7	6.28	11.6	4.5	5.58	12.3	4.8	6.28
16.30	0.40	28.00	16.10	3.10	0.982	knear	srby87	2.8	5.8	0.80	2.7	5.5	0.74	2.7	6.0	0.74
16.50	0.40	38.00	53.60	3.90	3.270	knear	srby87	3.5	5.3	2.63	3.2	5.0	2.20	3.3	5.4	2.34
16.65	-0.05	59.00	49.80	5.40	3.038	knear	srby87	4.6	4.3	2.20	4.2	4.1	1.84	4.3	4.6	1.93
16.70	-0.45	43.00	66.00	4.30	4.026	knear	srby87	3.7	5.0	2.98	3.5	4.8	2.67	3.5	5.2	2.67
16.80	0.40	22.00		2.00	6.166	stel	dect86			6.17			6.17			6.17
16.80	0.10	30.00	284.00	15.90	17.324	kfar	srby87	13.4	5.8	12.30	12.6	5.4	10.88	13.3	5.7	12.12
16.90	0.30	24.00	97.30	2.60	5.935	knear	srby87	2.5	6.2	5.49	2.3	5.8	4.64	2.4	6.3	5.06
17.20	-0.20	43.00	910.00	14.90	55.510	kfar	srby87	12.5	5.1	39.07	11.8	4.8	34.81	12.6	5.1	39.70
17.30	-0.90	46.00	5.30	4.40	0.323	knear	srby87	3.8	5.0	0.24	3.6	4.7	0.22	3.6	5.1	0.22
17.70	0.30	22.00	9.90	2.40	0.604	knear	srby87	2.2	6.4	0.51	2.1	6.0	0.46	2.2	6.5	0.51
17.70	0.10	41.00	51.00	15.10	3.111	kfar	srby87	12.7	5.2	2.20	11.9	5.0	1.93	12.7	5.2	2.20
18.15	-0.30	54.00	245.00	4.90	14.945	knear	srby87	4.2	4.7	10.98	3.9	4.5	9.47	3.9	4.9	9.47
18.65	0.30	21.00	63.50	16.80	3.873	kfar	srby87	14.0	6.6	2.69	13.2	6.2	2.39	13.9	6.4	2.65

Table A.2. continued.

l ($^{\circ}$) (1)	b ($^{\circ}$) (2)	V_{lsr} km s^{-1} (3)	L_{CO} $10^3 \text{ K km s}^{-1} \text{ pc}^2$ (4)	D kpc (5)	M_{GMCs} $10^5 M_{\odot}$ (6)	Mark (7)	Ref. (8)	$D_{8.5}$ kpc (9)	$R_{8.5}$ kpc (10)	$M_{8.5}$ $10^5 M_{\odot}$ (11)	$D_{8.0}$ kpc (12)	$R_{8.0}$ kpc (13)	$M_{8.0}$ $10^5 M_{\odot}$ (14)	$D_{8.4}$ kpc (15)	$R_{8.4}$ kpc (16)	$M_{8.4}$ $10^5 M_{\odot}$ (17)
18.85	0.05	50.00	330.00	14.40	20.130	kfar	srby87	12.2	5.0	14.45	11.5	4.7	12.84	12.2	5.0	14.45
18.85	-0.50	66.00	576.00	5.60	35.136	knear	srby87	4.7	4.4	24.75	4.3	4.2	20.72	4.4	4.6	21.69
19.20	-0.30	33.00	272.00	15.70	16.592	kfar	srby87	13.2	5.8	11.73	12.4	5.5	10.35	13.1	5.8	11.55
19.25	0.05	26.00	7.70	2.60	0.470	knear	srby87	2.4	6.3	0.40	2.3	5.9	0.37	2.3	6.3	0.37
19.50	0.00	26.00		2.20	0.891	stel	dect86			0.89			0.89			0.89
19.60	-0.05	58.00	13.70	4.90	0.836	knear	srby87	4.2	4.7	0.61	3.9	4.5	0.53	4.0	4.9	0.56
19.65	-0.65	55.00	14.60	4.80	0.891	knear	srby87	4.1	4.8	0.65	3.8	4.6	0.56	3.9	5.0	0.59
19.70	0.10	26.00	218.00	16.30	13.298	kfar	srby87	13.6	6.3	9.26	12.8	5.9	8.20	13.5	6.2	9.12
19.80	-0.45	69.00	153.00	5.60	9.333	knear	srby87	4.7	4.4	6.57	4.4	4.2	5.76	4.4	4.6	5.76
19.90	-0.55	44.00	111.00	4.00	6.771	knear	srby87	3.5	5.3	5.18	3.3	5.0	4.61	3.3	5.5	4.61
20.55	-0.45	67.00	108.00	13.30	6.588	kfar	srby87	11.3	4.5	4.76	10.7	4.3	4.26	11.4	4.6	4.84
20.70	-0.30	63.00	72.70	13.60	4.435	kfar	srby87	11.5	4.7	3.17	10.9	4.4	2.85	11.6	4.7	3.23
20.75	-0.10	59.00	168.00	13.80	10.248	kfar	srby87	11.7	4.8	7.37	11.0	4.6	6.51	11.8	4.8	7.49
20.75	0.10	77.00	31.60	6.00	1.928	knear	srby87	5.0	4.2	1.34	4.6	4.0	1.13	4.7	4.5	1.18
20.85	0.00	30.00	262.00	15.90	15.982	kfar	srby87	13.3	6.2	11.18	12.5	5.8	9.88	13.2	6.1	11.02
20.90	-0.30	68.00	31.60	5.40	1.928	knear	srby87	4.6	4.5	1.40	4.3	4.3	1.22	4.3	4.7	1.22
21.35	0.35	8.00	3.00	0.80	0.183	knear	srby87	0.7	7.8	0.14	0.8	7.3	0.18	0.9	7.7	0.23
21.40	-0.65	55.00	87.50	4.60	5.337	knear	srby87	4.0	5.0	4.04	3.7	4.7	3.45	3.8	5.2	3.64
21.40	0.00	75.00	153.00	12.80	9.333	kfar	srby87	11.0	4.3	6.89	10.4	4.1	6.16	11.1	4.4	7.02
21.50	0.25	77.00	5.50	5.90	0.335	knear	srby87	5.0	4.3	0.24	4.6	4.1	0.20	4.6	4.5	0.20
21.75	0.00	67.00	46.20	5.30	2.818	knear	srby87	4.5	4.6	2.03	4.2	4.4	1.77	4.2	4.8	1.77
21.90	-0.35	82.00	409.00	12.40	24.949	kfar	srby87	10.6	4.2	18.23	10.1	4.0	16.55	10.8	4.3	18.93
22.05	0.20	50.00	70.90	4.20	4.325	knear	srby87	3.7	5.3	3.36	3.4	5.0	2.83	3.5	5.4	3.00
22.10	-0.20	53.00		4.40	11.482	knear	dect86	3.8	5.2	8.56	3.6	4.9	7.69	3.6	5.3	7.69
22.35	0.10	85.00	71.70	12.20	4.374	kfar	srby87	10.5	4.2	3.24	10.0	4.0	2.94	10.6	4.3	3.30
22.40	0.30	84.00	53.00	12.20	3.233	kfar	srby87	10.5	4.2	2.39	10.0	4.0	2.17	10.7	4.3	2.49
22.55	-0.05	115.00	23.20	8.50	1.415	ktan	srby87									
22.55	-0.20	77.00	64.80	12.60	3.953	kfar	srby87	10.8	4.4	2.90	10.2	4.2	2.59	10.9	4.5	2.96
22.75	-0.25	109.00	40.30	9.20	2.458	ktan	srby87									
22.80	0.40	92.00	90.50	11.70	5.520	kfar	srby87	10.2	4.0	4.20	9.7	3.9	3.79	10.4	4.1	4.36
22.85	0.40	114.00	8.10	8.40	0.494	ktan	srby87									
23.00	-0.10	78.00		5.90	11.220	knear	dect86	4.9	4.4	7.74	4.6	4.2	6.82	4.6	4.6	6.82
23.00	-0.10	78.00		12.60	51.286	kfar	dect86	10.7	4.4	36.98	10.2	4.2	33.61	10.9	4.5	38.38
23.00	-0.40	74.00	2901.00	12.80	176.961	kfar	srby87	10.9	4.5	128.32	10.3	4.3	114.59	11.0	4.6	130.69
23.00	0.00	81.00	202.00	12.40	12.322	kfar	srby87	10.6	4.3	9.00	10.1	4.1	8.17	10.8	4.4	9.35
23.10	0.60	38.00	3.30	3.20	0.201	knear	srby87	2.9	5.9	0.17	2.8	5.6	0.15	2.8	6.0	0.15
23.30	-0.30	64.00		4.00	0.450	knear	tlw07	4.3	4.9	0.52	4.0	4.6	0.45	4.0	5.0	0.45
23.40	-0.25	102.00	258.00	11.00	15.738	ktan	srby87									
23.50	-0.40	73.00	21.80	5.50	1.330	knear	srby87	4.7	4.6	0.97	4.3	4.4	0.81	4.4	4.8	0.85
23.55	0.20	82.00	280.00	12.30	17.080	kfar	srby87	10.5	4.3	12.45	10.0	4.1	11.29	10.7	4.4	12.93
23.70	0.50	82.00	9.70	6.10	0.592	knear	srby87	5.1	4.4	0.41	4.7	4.2	0.35	4.7	4.6	0.35
23.80	0.10	98.00		7.10	28.840	knear	dect86	5.8	4.0	19.25	5.3	3.8	16.07	5.3	4.2	16.07
23.95	0.15	79.00	15.00	5.80	0.915	knear	srby87	4.9	4.5	0.65	4.6	4.2	0.58	4.6	4.7	0.58
24.20	-0.05	88.00	90.70	11.90	5.533	kfar	srby87	10.2	4.2	4.07	9.7	4.1	3.68	10.4	4.4	4.23
24.40	-0.25	60.00	111.00	13.60	6.771	kfar	srby87	11.4	5.1	4.76	10.8	4.8	4.27	11.5	5.1	4.84
24.45	-0.80	56.00	4.80	4.30	0.293	knear	srby87	3.9	5.2	0.24	3.6	5.0	0.21	3.7	5.4	0.22
24.45	0.25	120.00	1095.00	9.10	66.795	ktan	srby87									
24.45	-0.50	44.00	98.50	3.50	6.008	knear	srby87	3.2	5.7	5.02	3.0	5.4	4.41	3.1	5.8	4.71
24.50	0.20	38.00	78.20	15.10	4.770	kfar	srby87	12.6	6.0	3.32	11.9	5.7	2.96	12.5	5.9	3.27
24.50	-0.15	44.00	21.50	3.50	1.311	knear	srby87	3.2	5.7	1.10	3.0	5.4	0.96	3.1	5.8	1.03
24.50	-0.70	47.00	11.80	3.70	0.720	knear	srby87	3.4	5.6	0.61	3.2	5.3	0.54	3.2	5.7	0.54
24.50	-0.25	101.00	157.00	10.90	9.577	kfar	srby87	9.6	4.0	7.43	9.1	3.8	6.68	9.9	4.1	7.90
24.55	-0.50	61.00	35.00	4.80	2.135	knear	srby87	4.1	5.1	1.56	3.8	4.8	1.34	3.9	5.2	1.41
24.60	-0.15	83.00	212.00	12.10	12.932	kfar	srby87	10.4	4.4	9.55	9.8	4.2	8.48	10.5	4.5	9.74
24.65	-0.10	114.00	63.40	9.10	3.867	ktan	srby87									
25.20	0.15	105.00	85.90	9.10	5.240	ktan	srby87									
25.25	0.30	47.00	161.00	14.40	9.821	kfar	srby87	12.0	5.7	6.82	11.3	5.3	6.05	12.0	5.6	6.82
25.30	-0.50	55.00		13.90	47.863	kfar	dect86	11.6	5.3	33.33	10.9	5.0	29.43	11.6	5.4	33.33
25.45	-0.20	65.00	620.00	13.20	37.820	kfar	srby87	11.1	5.0	26.74	10.5	4.7	23.93	11.2	5.1	27.23
25.45	-0.20	120.00	32.20	9.00	1.964	ktan	srby87									
25.55	-0.40	116.00	10.40	9.00	0.634	ktan	srby87									
25.65	-0.10	94.00	793.00	11.50	48.373	kfar	srby87	9.7	4.2	34.42	9.3	4.0	31.64	10.0	4.3	36.58
25.70	-0.15	109.00	133.00	9.00	8.113	ktan	srby87									
25.80	0.45	48.00	34.70	3.70	2.117	knear	srby87	3.4	5.7	1.79	3.2	5.3	1.58	3.2	5.8	1.58

Table A.2. continued.

l (°) (1)	b (°) (2)	V_{lsr} km s^{-1} (3)	L_{CO} $10^3 \text{ K km s}^{-1} \text{ pc}^2$ (4)	D kpc (5)	M_{GMCs} $10^5 M_{\odot}$ (6)	Mark (7)	Ref. (8)	$D_{8.5}$ kpc (9)	$R_{8.5}$ kpc (10)	$M_{8.5}$ $10^5 M_{\odot}$ (11)	$D_{8.0}$ kpc (12)	$R_{8.0}$ kpc (13)	$M_{8.0}$ $10^5 M_{\odot}$ (14)	$D_{8.4}$ kpc (15)	$R_{8.4}$ kpc (16)	$M_{8.4}$ $10^5 M_{\odot}$ (17)	
25.80	0.25	109.00	347.00	9.00	21.167	ktan	srby87										
25.90	0.20	69.00	4.50	5.10	0.274	knear	srby87	4.4	4.9	0.20	4.1	4.7	0.18	4.2	5.1	0.19	
25.90	-0.15	107.00	273.00	9.00	16.653	ktan	srby87										
25.95	-0.60	63.00	9.40	4.70	0.573	knear	srby87	4.1	5.1	0.44	3.9	4.8	0.39	3.9	5.3	0.39	
26.20	0.10	71.00	17.30	5.20	1.055	knear	srby87	4.5	4.9	0.79	4.2	4.6	0.69	4.2	5.1	0.69	
26.35	0.80	47.00	5.30	3.60	0.323	knear	srby87	3.3	5.7	0.27	3.1	5.4	0.24	3.2	5.8	0.26	
26.50	-0.60	67.00	93.50	4.90	5.703	knear	srby87	4.3	5.0	4.39	4.0	4.8	3.80	4.1	5.2	3.99	
26.55	-0.30	108.00	39.50	8.90	2.409	ktan	srby87										
26.60	0.00	26.00	186.00	15.80	11.346	kfar	srby87	13.2	6.8	7.92	12.4	6.3	6.99	13.0	6.6	7.68	
26.65	0.00	100.00	222.00	9.60	13.542	ktan	srby87										
26.65	0.00	112.00	23.90	8.90	1.458	ktan	srby87										
26.70	0.50	86.00	13.40	6.20	0.817	knear	srby87	5.2	4.5	0.57	4.8	4.3	0.49	4.8	4.7	0.49	
26.90	0.10	91.00	44.40	6.50	2.708	knear	srby87	5.5	4.4	1.94	5.0	4.2	1.60	5.1	4.6	1.67	
26.95	-0.40	69.00	5.70	5.00	0.348	knear	srby87	4.4	5.0	0.27	4.1	4.7	0.23	4.1	5.2	0.23	
26.95	-0.10	81.00	22.10	5.80	1.348	knear	srby87	5.0	4.6	1.00	4.6	4.4	0.85	4.6	4.8	0.85	
27.05	-0.15	101.00	21.50	8.90	1.311	ktan	srby87										
27.25	0.15	33.00	148.00	15.20	9.028	kfar	srby87	12.7	6.4	6.30	11.9	6.0	5.53	12.5	6.3	6.11	
27.30	-0.30	72.00	14.50	5.20	0.884	knear	srby87	4.5	4.9	0.66	4.2	4.7	0.58	4.3	5.1	0.60	
27.35	-0.15	93.00	18.00	6.60	1.098	knear	srby87	5.6	4.4	0.79	5.1	4.2	0.66	5.1	4.6	0.66	
27.50	0.20	36.00	46.10	15.00	2.812	kfar	srby87	12.5	6.3	1.95	11.7	5.9	1.71	12.4	6.2	1.92	
27.50	0.15	95.00	167.00	10.90	10.187	kfar	srby87	9.4	4.3	7.58	9.0	4.1	6.95	9.7	4.5	8.07	
27.65	0.10	83.00	32.10	5.90	1.958	knear	srby87	5.1	4.6	1.46	4.7	4.4	1.24	4.7	4.8	1.24	
27.75	0.10	101.00	141.00	8.90	8.601	ktan	srby87										
28.20	-0.05	95.00	150.00	10.80	9.150	kfar	srby87	9.3	4.4	6.78	8.8	4.2	6.07	9.6	4.5	7.23	
28.30	-0.35	47.00	18.60	3.50	1.135	knear	srby87	3.2	5.9	0.95	3.0	5.5	0.83	3.1	6.0	0.89	
28.30	-0.10	81.00	186.00	5.80	11.346	knear	srby87	5.0	4.7	8.43	4.6	4.5	7.14	4.6	4.9	7.14	
28.60	0.05	100.00	141.00	8.80	8.601	ktan	srby87										
28.60	0.20	79.00	68.10	11.90	4.154	kfar	srby87	10.0	4.8	2.93	9.5	4.6	2.65	10.2	4.9	3.05	
28.80	-0.10	80.00		5.70	21.380	knear	dect86	4.9	4.8	15.80	4.6	4.6	13.92	4.6	5.0	13.92	
28.85	-0.25	88.00	94.40	6.30	5.758	knear	srby87	5.4	4.6	4.23	4.9	4.4	3.48	4.9	4.8	3.48	
28.95	-0.65	51.00	7.60	3.80	0.464	knear	srby87	3.4	5.7	0.37	3.2	5.4	0.33	3.3	5.8	0.35	
29.00	0.05	98.00	255.00	8.80	15.555	ktan	srby87										
29.10	-0.30	94.00	223.00	7.10	13.603	knear	srby87	5.7	4.5	8.77	5.2	4.3	7.30	5.2	4.7	7.30	
29.35	-0.45	77.00	141.00	5.40	8.601	knear	srby87	4.8	4.9	6.80	4.4	4.7	5.71	4.5	5.1	5.97	
29.35	-0.55	64.00	25.70	4.60	1.568	knear	srby87	4.1	5.3	1.25	3.8	5.0	1.07	3.9	5.5	1.13	
29.55	0.20	79.00	87.40	5.60	5.331	knear	srby87	4.9	4.9	4.08	4.5	4.6	3.44	4.6	5.1	3.60	
29.60	-0.60	75.00	274.00	12.10	16.714	kfar	srby87	10.1	5.0	11.65	9.6	4.7	10.52	10.2	5.1	11.88	
29.85	-0.05	100.00	350.00	8.70	21.350	ktan	srby87										
29.90	0.10	40.00	44.00	14.40	2.684	kfar	srby87	12.0	6.2	1.86	11.2	5.9	1.62	11.9	6.2	1.83	
29.90	-0.80	83.00	17.50	5.90	1.067	knear	srby87	5.1	4.8	0.80	4.7	4.6	0.68	4.8	5.0	0.71	
30.30	-0.25	105.00	265.00	8.60	16.165	ktan	srby87										
30.40	0.45	45.00	2.00	3.30	0.122	knear	srby87	3.1	6.1	0.11	2.9	5.7	0.09	3.0	6.1	0.10	
30.55	0.35	95.00	79.40	8.60	4.843	ktan	srby87										
30.60	-0.05	43.00	321.00	14.10	19.581	kfar	srby87	11.7	6.2	13.48	11.0	5.8	11.92	11.6	6.1	13.25	
30.60	-0.45	94.00	75.70	10.30	4.618	kfar	srby87	8.8	4.6	3.37	8.4	4.4	3.07	9.1	4.7	3.60	
30.60	-0.10	115.00	56.90	8.60	3.471	ktan	srby87	7.3	4.3	2.50	6.9	4.1	2.23				
30.80	-0.05	92.00	766.00	6.80	46.726	knear	srby87	5.7	4.6	32.83	5.2	4.4	27.32	5.2	4.8	27.32	
30.85	-0.15	53.00	8.20	3.90	0.500	knear	srby87	3.5	5.8	0.40	3.3	5.4	0.36	3.3	5.9	0.36	
30.90	-0.60	102.00	13.10	8.60	0.799	ktan	srby87										
30.95	0.10	40.00	237.00	14.20	14.457	kfar	srby87	11.8	6.3	9.98	11.1	5.9	8.83	11.7	6.2	9.81	
30.95	0.40	77.00	29.70	5.50	1.812	knear	srby87	4.8	5.0	1.38	4.5	4.8	1.21	4.5	5.2	1.21	
31.00	0.00	48.00		13.70	28.184	kfar	dect86	11.4	6.0	19.52	10.7	5.6	17.19	11.3	5.9	19.17	
31.30	0.00	79.00	41.90	5.60	2.556	knear	srby87	4.9	5.0	1.96	4.6	4.7	1.72	4.6	5.2	1.72	
31.40	0.00	39.00	514.00	14.20	31.354	kfar	srby87	11.8	6.4	21.65	11.1	6.0	19.16	11.7	6.3	21.29	
31.40	-0.25	88.00	30.20	10.70	1.842	kfar	srby87	9.0	4.8	1.30	8.6	4.5	1.19	9.3	4.9	1.39	
31.45	0.05	104.00	102.00	8.50	6.222	ktan	srby87	7.3	4.4	4.59							
31.95	-0.30	97.00	49.30	8.50	3.007	ktan	srby87										
32.00	0.00	98.00	166.00	8.50	10.126	ktan	srby87										
32.45	0.20	51.00	34.30	13.30	2.092	kfar	srby87	11.0	5.9	1.43	10.3	5.6	1.25	10.9	5.9	1.41	
32.60	-0.25	90.00	565.00	10.30	34.465	kfar	srby87	8.6	4.8	24.03	8.2	4.6	21.84	8.9	4.9	25.73	
33.35	-0.55	92.00	36.50	8.40	2.226	ktan	srby87										
33.40	0.00	75.00	167.00	11.40	10.187	kfar	srby87	9.4	5.2	6.93	8.9	4.9	6.21	9.6	5.3	7.22	
33.45	-0.10	87.00	191.00	10.30	11.651	kfar	srby87	8.6	4.9	8.12	8.2	4.7	7.38	8.9	5.0	8.70	

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s^{-1}	$10^3 \text{ K km s}^{-1} \text{ pc}^2$	kpc	$10^5 M_{\odot}$			kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
33.65	0.20	42.00	48.90	13.60	2.983	kfar	srby87	11.3	6.3	2.06	10.6	6.0	1.81	11.2	6.3	2.02
33.80	-0.20	48.00	138.00	13.20	8.418	kfar	srby87	10.9	6.1	5.74	10.3	5.7	5.13	10.9	6.1	5.74
33.85	0.00	89.00	57.30	10.00	3.495	kfar	srby87	8.3	4.9	2.41	7.9	4.6	2.18	8.7	5.0	2.65
33.90	0.10	106.00	182.00	8.30	11.102	ktan	srby87	7.1	4.7	8.12	6.6	4.5	7.02	7.0	4.7	7.90
34.15	-0.10	89.00	40.40	8.30	2.464	ktan	srby87									
34.25	0.10	53.00	50.90	3.70	3.105	knear	srby87	3.5	6.0	2.78	3.3	5.6	2.47	3.3	6.0	2.47
34.35	-0.85	13.00	2.50	0.90	0.152	knear	srby87	0.9	7.8	0.15	0.9	7.2	0.15	1.1	7.6	0.23
34.40	-0.20	53.00	6.70	3.70	0.409	knear	srby87	3.5	6.0	0.37	3.3	5.6	0.33	3.3	6.0	0.33
34.65	-0.80	55.00	37.50	3.90	2.287	knear	srby87	3.6	5.9	1.95	3.4	5.6	1.74	3.5	6.0	1.84
34.70	-0.70	46.00	230.00	3.30	14.030	knear	srby87	3.1	6.2	12.38	2.9	5.9	10.83	3.0	6.3	11.60
34.80	-0.15	76.00	38.90	5.60	2.373	knear	srby87	4.9	5.3	1.82	4.6	5.0	1.60	4.6	5.4	1.60
35.05	0.30	51.00	44.10	3.60	2.690	knear	srby87	3.4	6.1	2.40	3.2	5.7	2.13	3.2	6.1	2.13
35.15	-0.75	35.00	30.80	3.30	1.879	knear	srby87	2.4	6.7	0.99	2.3	6.3	0.91	2.4	6.7	0.99
35.20	-0.10	13.00	3.80	0.90	0.232	knear	srby87	0.9	7.8	0.23	0.9	7.3	0.23	1.1	7.6	0.35
35.75	0.15	82.00	273.00	10.20	16.653	kfar	srby87	8.3	5.2	11.03	7.9	4.9	9.99	8.6	5.3	11.84
35.80	-0.20	29.00	7.70	2.00	0.470	knear	srby87	2.0	7.0	0.47	1.9	6.5	0.42	2.0	6.9	0.47
35.95	-0.50	58.00	6.20	4.10	0.378	knear	srby87	3.8	5.9	0.32	3.6	5.5	0.29	3.6	6.0	0.29
36.10	0.65	77.00	101.00	5.60	6.161	knear	srby87	5.1	5.3	5.11	4.7	5.0	4.34	4.7	5.5	4.34
36.30	-0.10	57.00		12.10	42.658	kfar	dect86	10.0	5.9	29.14	9.4	5.6	25.74	10.0	5.9	29.14
36.40	-0.10	52.00	60.60	3.60	3.697	knear	srby87	3.4	6.1	3.30	3.2	5.7	2.92	3.3	6.2	3.11
36.50	-0.15	77.00	107.00	5.90	6.527	knear	srby87	5.1	5.3	4.88	4.8	5.0	4.32	4.8	5.5	4.32
36.90	-0.05	80.00	36.50	5.90	2.226	knear	srby87	5.5	5.3	1.93	5.1	5.0	1.66	5.0	5.4	1.60
37.35	0.25	88.00	199.00	8.60	12.139	ktan	srby87	6.8	5.2	7.59	6.4	4.9	6.72			
37.45	0.10	41.00	4.00	3.00	0.244	knear	srby87	2.7	6.5	0.20	2.6	6.1	0.18	2.7	6.6	0.20
37.75	-0.20	60.00	137.00	11.60	8.357	kfar	srby87	9.5	5.9	5.61	8.9	5.5	4.92	9.5	5.9	5.61
38.25	-0.15	65.00	32.70	11.10	1.995	kfar	srby87	9.0	5.8	1.31	8.5	5.4	1.17	9.1	5.8	1.34
38.90	0.40	32.00		2.20	5.754	knear	dect86	2.2	6.9	5.75	2.1	6.5	5.24	2.2	6.9	5.75
38.95	-0.45	42.00	16.30	2.90	0.994	knear	srby87	2.8	6.5	0.93	2.7	6.1	0.86	2.8	6.6	0.93
39.85	-0.20	57.00	1718.00	11.30	104.798	kfar	srby87	9.2	6.1	69.47	8.6	5.7	60.70	9.2	6.1	69.47
40.30	-0.45	74.00	14.70	5.70	0.897	knear	srby87	5.5	5.6	0.84	5.1	5.3	0.72	5.0	5.7	0.69
41.00	-0.20	38.00	16.10	2.70	0.982	knear	srby87	2.6	6.8	0.91	2.5	6.3	0.84	2.6	6.8	0.91
41.15	-0.20	60.00	464.00	10.70	28.304	kfar	srby87	8.6	6.0	18.28	8.1	5.7	16.22	8.6	6.0	18.28
41.90	-0.40	59.00	84.30	10.60	5.142	kfar	srby87	8.5	6.1	3.31	8.0	5.7	2.93	8.5	6.1	3.31
42.15	-0.60	67.00	50.30	5.40	3.068	knear	srby87	5.0	5.8	2.63	4.7	5.5	2.32	4.7	5.9	2.32
42.35	-0.05	58.00	80.20	10.50	4.892	kfar	srby87	8.4	6.1	3.13	7.9	5.8	2.77	8.5	6.1	3.21
42.75	-0.35	59.00	39.80	4.60	2.428	knear	srby87	4.3	6.1	2.12	4.0	5.7	1.84	4.1	6.2	1.93
43.10	0.05	12.00	102.00	13.80	6.222	kfar	srby87	11.7	8.0	4.47	10.8	7.4	3.81	11.2	7.7	4.10
43.20	-0.50	57.00	7.50	4.40	0.457	knear	srby87	4.1	6.2	0.40	3.9	5.8	0.36	4.0	6.2	0.38
44.35	-0.20	64.00	426.00	9.20	25.986	kfar	srby87	7.0	6.0	15.04	6.5	5.7	12.97	7.2	6.0	15.92
45.45	0.05	58.00	289.00	9.50	17.629	kfar	srby87	7.4	6.2	10.70	6.9	5.8	9.30	7.4	6.2	10.70
46.00	0.20	25.00		1.80	0.513	knear	dect86	1.7	7.4	0.46	1.7	6.9	0.46	1.9	7.3	0.57
46.30	-0.20	59.00	46.50	9.10	2.836	kfar	srby87	6.8	6.2	1.58	6.3	5.8	1.36	6.9	6.2	1.63
47.05	0.25	55.00	41.80	9.30	2.550	kfar	srby87	7.1	6.4	1.49	6.6	6.0	1.28	7.1	6.4	1.49
48.60	0.25	10.00	36.50	12.50	2.226	kfar	srby87	10.6	8.1	1.60	9.9	7.5	1.40	10.2	7.8	1.48
48.60	0.00	20.00	63.40	11.80	3.867	kfar	srby87	9.9	7.7	2.72	9.2	7.1	2.35	9.5	7.5	2.51
48.85	0.15	51.00	38.70	6.60	2.361	ktan	srby87									
49.50	-0.40	57.00	665.00	6.60	40.565	ktan	srby87	5.5	6.5	28.17	5.2	6.1	25.18	5.5	6.4	28.17
49.75	-0.55	68.00	15.40	6.50	0.939	ktan	srby87	5.5	6.5	0.67	5.2	6.1	0.60	5.4	6.4	0.65
50.05	0.60	-2.00	112.00	13.00	6.832	kout	srby87	11.3	8.7	5.16	10.4	8.1	4.37	10.7	8.4	4.63
50.20	-0.50	45.00		3.60	2.512	kfar	dect86	7.2	6.8	10.05	6.6	6.3	8.44	6.9	6.7	9.23
50.85	0.25	43.00	5.70	3.60	0.348	knear	srby87	3.6	6.8	0.35	3.5	6.4	0.33	3.7	6.8	0.37
51.35	-0.05	54.00	71.30	6.30	4.349	ktan	srby87	5.3	6.6	3.08	5.0	6.2	2.74	5.3	6.6	3.08
52.10	-0.30	59.00		6.10	18.197	ktan	dect86	5.2	6.7	13.22	4.9	6.3	11.74	5.2	6.6	13.22
52.30	-0.05	52.00	7.30	6.10	0.445	ktan	srby87	5.2	6.7	0.32	4.9	6.3	0.29	5.1	6.7	0.31
52.55	-0.95	64.00	97.20	6.10	5.929	ktan	srby87	5.2	6.7	4.31	4.9	6.4	3.83	5.1	6.7	4.14
53.15	-0.25	61.00	11.70	6.00	0.714	ktan	srby87	5.1	6.8	0.52	4.8	6.4	0.46	5.0	6.7	0.50
53.55	0.05	23.00	11.10	1.80	0.677	knear	srby87	1.7	7.6	0.60	1.8	7.1	0.68	2.0	7.5	0.84
54.10	-0.05	40.00	21.90	8.20	1.336	kfar	srby87	6.2	7.0	0.76	5.5	6.5	0.60	5.7	6.9	0.65
54.65	0.80	31.00	67.10	9.00	4.093	kfar	srby87	7.2	7.3	2.62	6.6	6.8	2.20	6.8	7.2	2.34
55.30	0.20	30.00	72.60	9.00	4.429	kfar	srby87	7.1	7.4	2.76	6.5	6.9	2.31	6.7	7.2	2.45
55.70	0.00	36.00		5.60	8.318	ktan	dect86									
56.80	1.90	-54.60		14.40	1.400	kout	mk88	14.9	12.5	1.50	13.6	11.4	1.25	13.4	11.3	1.21
59.30	-0.20	28.00	6.10	2.70	0.372	knear	srby87	2.8	7.5	0.40	3.0	7.0	0.46	3.5	7.4	0.63
59.90	1.50	-65.00		14.90	0.580	kout	mk88	15.4	13.3	0.62	14.0	12.1	0.51	13.7	11.9	0.49
60.00	0.10	22.00	110.00	8.00	6.710	kfar	srby87	6.5	7.7	4.43	5.9	7.2	3.65	5.8	7.5	3.53

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s^{-1}	$10^3 \text{ K km s}^{-1} \text{ pc}^2$	kpc	$10^5 M_{\odot}$			kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
60.90	-0.10	23.00	13.80	7.50	0.842	kfar	srby87	6.1	7.7	0.56	5.4	7.1	0.44	5.2	7.5	0.40
61.50	0.10	22.00	32.90	7.40	2.007	kfar	srby87	6.0	7.7	1.32	5.3	7.2	1.03	5.1	7.5	0.95
63.10	0.40	20.00	21.20	7.00	1.293	kfar	srby87	5.7	7.8	0.86	5.0	7.3	0.66	4.7	7.6	0.58
63.50	0.00	-9.70		8.49	38.019	kout	sod91	8.8	9.1	40.85	8.0	8.4	33.76	8.0	8.7	33.76
65.50	1.40	-72.20	29.00	12.00	5.800	kout	dbt90	14.9	13.7	8.94	13.5	12.5	7.34	13.0	12.2	6.81
65.95	0.85	-63.00	4.40	12.00	0.900	kout	dbt90	13.6	12.8	1.16	12.3	11.6	0.95	12.0	11.5	0.90
66.45	1.75	-60.90	7.30	12.00	1.400	kout	dbt90	13.2	12.5	1.69	12.0	11.5	1.40	11.7	11.4	1.33
66.70	1.45	-69.10	4.50	12.00	0.900	kout	dbt90	14.2	13.3	1.26	12.8	12.2	1.02	12.4	12.0	0.96
67.00	1.15	-68.00	3.30	12.00	0.700	kout	dbt90	14.0	13.2	0.95	12.6	12.0	0.77	12.2	11.9	0.72
67.50	1.00	-51.10	8.00	12.00	1.600	kout	dbt90	11.9	11.7	1.57	10.8	10.7	1.30	10.5	10.7	1.23
68.16	0.90	-63.90	4.90	12.00	1.000	kout	dbt90	13.2	12.8	1.21	11.9	11.6	0.98	11.6	11.5	0.93
68.19	1.24	-60.90	14.00	12.00	2.900	kout	dbt90	12.8	12.5	3.30	11.6	11.4	2.71	11.3	11.3	2.57
68.20	0.90	-63.40	2.50	12.00	0.500	kout	dbt90	13.1	12.7	0.60	11.9	11.6	0.49	11.5	11.5	0.46
68.30	1.25	-62.60	26.00	12.00	5.200	kout	dbt90	13.0	12.6	6.10	11.8	11.5	5.03	11.4	11.4	4.69
68.37	1.26	-64.00	9.30	12.00	1.800	kout	dbt90	13.1	12.8	2.15	11.9	11.6	1.77	11.5	11.5	1.65
68.56	1.22	-61.90	0.90	12.00	0.200	kout	dbt90	12.9	12.6	0.23	11.6	11.5	0.19	11.3	11.4	0.18
69.00	0.80	-62.30	6.10	12.00	1.200	kout	dbt90	12.8	12.6	1.37	11.6	11.5	1.12	11.2	11.4	1.05
69.30	0.85	-63.00	4.40	12.00	0.900	kout	dbt90	12.8	12.6	1.02	11.6	11.5	0.84	11.2	11.4	0.78
69.44	1.39	-67.70	2.20	12.00	0.400	kout	dbt90	13.4	13.1	0.50	12.1	11.9	0.41	11.6	11.8	0.37
69.74	1.46	-64.20	12.00	12.00	2.300	kout	dbt90	12.9	12.7	2.66	11.6	11.6	2.15	11.2	11.5	2.00
69.83	1.27	-60.60	4.20	12.00	0.800	kout	dbt90	12.4	12.4	0.85	11.2	11.3	0.70	10.9	11.2	0.66
69.85	1.50	-63.60	22.00	12.00	4.400	kout	dbt90	12.8	12.7	5.01	11.5	11.6	4.04	11.1	11.5	3.76
69.85	1.01	-57.30	1.00	12.00	0.200	kout	dbt90	12.0	12.1	0.20	10.9	11.1	0.17	10.6	11.0	0.16
69.90	0.95	-65.30	19.00	12.00	3.800	kout	dbt90	12.9	12.8	4.39	11.7	11.7	3.61	11.3	11.6	3.37
69.92	1.50	-63.80	4.80	12.00	1.000	kout	dbt90	12.8	12.7	1.14	11.5	11.6	0.92	11.1	11.5	0.86
70.01	1.04	-63.60	6.30	12.00	1.200	kout	dbt90	12.7	12.7	1.34	11.5	11.6	1.10	11.1	11.4	1.03
70.02	1.17	-67.10	11.00	12.00	2.200	kout	dbt90	13.1	13.0	2.62	11.9	11.8	2.16	11.4	11.7	1.99
70.05	1.15	-66.50	19.00	12.00	3.800	kout	dbt90	13.1	12.9	4.53	11.8	11.8	3.67	11.4	11.7	3.43
70.16	1.17	-66.90	6.10	12.00	1.200	kout	dbt90	13.1	13.0	1.43	11.8	11.8	1.16	11.4	11.7	1.08
70.16	1.29	-64.80	2.60	12.00	0.500	kout	dbt90	12.8	12.8	0.57	11.6	11.6	0.47	11.2	11.5	0.44
70.30	1.12	-65.70	7.10	12.00	1.400	kout	dbt90	12.9	12.8	1.62	11.7	11.7	1.33	11.2	11.6	1.22
70.33	0.96	-62.90	5.60	12.00	1.100	kout	dbt90	12.6	12.6	1.21	11.4	11.5	0.99	11.0	11.4	0.92
70.40	0.50	-70.80	6.80	12.00	1.400	kout	dbt90	13.5	13.3	1.77	12.2	12.1	1.45	11.7	11.9	1.33
70.40	0.90	-62.60	14.00	12.00	2.700	kout	dbt90	12.5	12.5	2.93	11.3	11.5	2.39	10.9	11.4	2.23
70.53	1.15	-59.20	4.80	12.00	1.000	kout	dbt90	12.1	12.2	1.02	10.9	11.2	0.83	10.6	11.1	0.78
70.90	0.55	-71.00	15.00	12.00	2.900	kout	dbt90	13.4	13.3	3.62	12.1	12.1	2.95	11.6	11.9	2.71
71.10	-0.40	10.00	5.20	1.40	0.317	knear	srby87	1.1	8.2	0.20	1.6	7.6	0.41	2.7	8.0	1.18
74.10	1.50	-36.20		8.40	0.400	kout	mk88	8.9	10.5	0.45	8.0	9.6	0.36	7.8	9.8	0.34
75.00	1.90	-79.20		13.10	0.150	kout	mk88	13.6	14.0	0.16	12.2	12.7	0.13	11.6	12.5	0.12
76.20	0.10	-2.00	72.00	5.10	4.392	kout	srby87	4.8	8.7	3.89	4.1	8.1	2.84	3.5	8.4	2.07
76.30	-0.70	-1.00	43.20	4.90	2.635	kout	srby87	4.7	8.7	2.42	3.9	8.0	1.67	3.3	8.4	1.20
77.20	0.70	2.00	75.70	4.10	4.618	kout	srby87	4.0	8.5	4.40				1.9	8.3	0.99
78.00	-0.30	-4.00	19.80	4.80	1.208	kout	srby87	4.7	8.8	1.16	3.9	8.2	0.80	3.3	8.5	0.57
78.10	-0.80	0.00	29.70	4.10	1.812	kout	srby87	4.1	8.6	1.81				2.1	8.3	0.48
78.20	0.10	11.00	11.30	2.00	0.689	ktan	srby87	1.7	8.3	0.50	1.6	7.8	0.44	1.7	8.2	0.50
78.80	1.70	-76.00		11.80	0.700	kout	mk88	12.3	13.6	0.76	11.1	12.3	0.62	10.5	12.1	0.55
78.80	-0.50	-1.00	42.10	4.10	2.568	kout	srby87	4.0	8.7	2.44	3.3	8.0	1.66	2.3	8.4	0.81
79.20	0.10	8.00	6.40	1.90	0.390	ktan	srby87	1.6	8.3	0.28	1.5	7.9	0.24	1.6	8.3	0.28
79.60	-0.60	4.00	12.10	2.50	0.738	kfar	srby87	2.9	8.5	0.99	1.9	7.9	0.43	1.5	8.4	0.27
80.10	1.90	-72.10		11.20	0.200	kout	mk88	11.6	13.2	0.21	10.4	12.0	0.17	9.8	11.8	0.15
80.70	0.70	-1.00	14.10	3.50	0.860	kout	srby87	3.6	8.7	0.91	2.8	8.0	0.55	1.4	8.4	0.14
80.80	-0.50	-3.00	3.60	3.80	0.220	kout	srby87	3.9	8.8	0.23	3.1	8.1	0.15	2.2	8.4	0.07
81.20	1.00	13.00	9.00	1.50	0.549	ktan	srby87	1.3	8.4	0.41	1.2	7.9	0.35	1.3	8.3	0.41
81.40	0.70	-2.00	10.30	3.50	0.628	kout	srby87	3.6	8.7	0.66	2.8	8.1	0.40	1.3	8.4	0.09
81.40	0.00	-4.00	3.60	2.00	0.220	kout	srby87	3.9	8.8	0.84	3.2	8.1	0.56	2.3	8.5	0.29
81.70	0.60	-2.00	42.90	2.00	2.617	kout	srby87	3.5	8.7	8.01	2.7	8.1	4.77	1.2	8.4	0.94
82.00	-0.40	5.00	4.10	1.40	0.250	ktan	srby87				1.1	7.9	0.15	1.2	8.3	0.18
83.30	1.90	-72.30		10.60	0.200	kout	mk88	11.0	13.1	0.22	9.9	12.0	0.17	9.2	11.8	0.15
83.50	-1.00	2.00	2.00	1.10	0.122	kout	srby87	2.3	8.5	0.53				0.9	8.4	0.08
84.60	0.20	-1.00	48.60	2.00	2.965	kout	srby87	2.7	8.7	5.40	1.8	8.0	2.40	0.8	8.5	0.47
84.70	1.70	-83.00		11.40	1.800	kout	mk88	12.2	14.2	2.06	10.9	12.9	1.65	10.1	12.6	1.41
85.00	2.40	-51.00		7.80	0.200	kout	mk88	8.3	11.4	0.23	7.4	10.4	0.18	7.0	10.5	0.16
85.00	2.40	-82.80		11.50	0.300	kout	mk88	12.1	14.2	0.33	10.8	12.9	0.26	10.0	12.6	0.23
85.40	0.00	-38.00	6.10	7.10	0.372	kout	srby87	6.9	10.5	0.35	6.1	9.7	0.27	5.7	9.8	0.24
86.00	0.50	-16.80		4.18	5.495	kout	sod91	4.6	9.4	6.65	3.9	8.7	4.78	3.4	8.9	3.64

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s^{-1}	$10^3 \text{ K km s}^{-1} \text{ pc}^2$	kpc	$10^5 M_{\odot}$	(7)	(8)	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
88.40	1.90	-63.70		8.60	0.200	kout	mk88	9.2	12.3	0.23	8.2	11.3	0.18	7.6	11.2	0.16
88.80	1.90	-60.60		8.30	0.120	kout	mk88	8.8	12.1	0.13	7.8	11.0	0.11	7.2	11.0	0.09
89.90	1.30	-71.00		9.20	0.630	kout	mk88	9.8	12.9	0.71	8.7	11.8	0.56	8.0	11.7	0.48
91.00	-0.50	-24.60		4.25	7.413	kout	sod91	4.7	9.8	9.07	4.0	9.0	6.57	3.5	9.2	5.03
91.00	-1.00	-36.30		5.46	8.710	kout	sod91	5.9	10.4	10.17	5.1	9.6	7.60	4.6	9.7	6.18
92.90	1.90	-87.70		10.40	0.200	kout	mk88	11.5	14.7	0.24	10.2	13.3	0.19	9.4	13.0	0.16
93.20	1.70	-71.20		9.00	0.200	kout	mk88	9.3	13.0	0.21	8.3	11.8	0.17	7.6	11.7	0.14
103.00	2.00	-18.30		2.31	3.802	kout	sod91	2.7	9.5	5.19	2.2	8.7	3.45	1.7	9.0	2.06
106.16	0.99	-60.70	0.98	6.33	0.119	kout	hcs01	6.8	12.3	0.14	5.9	11.2	0.10	5.3	11.2	0.08
106.21	1.47	-22.38	0.66	2.50	0.080	kout	hcs01	2.9	9.7	0.11	2.4	8.9	0.07	1.9	9.2	0.05
106.27	-0.01	-56.36	3.20	5.86	0.387	kout	hcs01	6.3	11.9	0.45	5.5	10.9	0.34	4.9	10.9	0.27
106.36	1.34	-25.49	0.79	2.80	0.096	kout	hcs01	3.2	9.9	0.13	2.6	9.1	0.08	2.2	9.3	0.06
106.44	0.41	-55.63	1.20	5.77	0.145	kout	hcs01	6.2	11.9	0.17	5.4	10.9	0.13	4.8	10.9	0.10
106.48	0.90	-54.17	2.70	5.61	0.327	kout	hcs01	6.1	11.8	0.39	5.3	10.8	0.29	4.7	10.8	0.23
106.51	1.09	-60.92	1.70	6.33	0.206	kout	hcs01	6.8	12.3	0.24	5.9	11.2	0.18	5.3	11.2	0.14
106.59	1.01	-61.62	2.90	6.40	0.351	kout	hcs01	6.9	12.4	0.41	6.0	11.3	0.31	5.4	11.3	0.25
106.61	1.02	-11.89	1.10	1.42	0.133	kout	hcs01	1.8	9.2	0.21	1.3	8.5	0.11	0.8	8.8	0.04
106.89	-1.03	-37.89	0.76	3.96	0.092	kout	hcs01	4.3	10.6	0.11	3.7	9.8	0.08	3.2	9.9	0.06
106.98	5.26	-8.53	1.60	1.05	0.194	kout	hcs01	1.4	9.0	0.34	1.0	8.3	0.18	0.5	8.7	0.04
107.16	0.67	-52.78	1.40	5.42	0.169	kout	hcs01	5.9	11.7	0.20	5.1	10.7	0.15	4.5	10.7	0.12
107.17	0.01	-50.58	2.50	5.19	0.303	kout	hcs01	5.6	11.5	0.35	4.9	10.5	0.27	4.3	10.6	0.21
107.17	4.52	-6.33	1.00	0.79	0.121	kout	hcs01	1.2	8.9	0.28	0.7	8.2	0.10	0.3	8.6	0.02
107.23	-0.93	-41.58	1.60	4.29	0.194	kout	hcs01	4.7	10.9	0.23	4.0	10.0	0.17	3.5	10.1	0.13
107.36	0.15	-50.66	0.81	5.19	0.098	kout	hcs01	5.6	11.5	0.11	4.9	10.5	0.09	4.3	10.6	0.07
107.40	-0.14	-50.69	2.10	5.19	0.254	kout	hcs01	5.6	11.5	0.30	4.9	10.5	0.23	4.3	10.6	0.17
107.44	0.50	-50.76	0.72	5.19	0.087	kout	hcs01	5.6	11.5	0.10	4.9	10.5	0.08	4.3	10.6	0.06
107.66	-2.27	-55.19	1.80	5.65	0.218	kout	hcs01	6.1	11.9	0.25	5.3	10.9	0.19	4.7	10.9	0.15
107.81	0.74	-52.20	0.75	5.32	0.091	kout	hcs01	5.8	11.6	0.11	5.0	10.7	0.08	4.4	10.7	0.06
108.03	1.04	-57.45	0.73	5.86	0.088	kout	hcs01	6.3	12.1	0.10	5.5	11.0	0.08	4.9	11.0	0.06
108.36	0.43	-47.77	0.76	4.83	0.092	kout	hcs01	5.3	11.3	0.11	4.5	10.4	0.08	4.0	10.5	0.06
108.47	-2.85	-53.70	0.84	5.44	0.102	kout	hcs01	5.9	11.8	0.12	5.1	10.8	0.09	4.5	10.8	0.07
108.54	-1.02	-51.98	31.00	5.25	3.751	kout	hcs01	5.7	11.6	4.42	4.9	10.7	3.27	4.3	10.7	2.52
108.63	-0.17	-50.32	0.71	5.07	0.086	kout	hcs01	5.5	11.5	0.10	4.8	10.5	0.08	4.2	10.6	0.06
108.64	0.73	-54.88	3.40	5.54	0.411	kout	hcs01	6.0	11.9	0.48	5.2	10.9	0.36	4.6	10.9	0.28
108.71	-1.13	-50.13	2.30	5.05	0.278	kout	hcs01	5.5	11.5	0.33	4.7	10.5	0.24	4.2	10.6	0.19
108.73	-2.63	-55.66	3.40	5.63	0.411	kout	hcs01	6.1	11.9	0.48	5.3	10.9	0.36	4.6	10.9	0.27
108.76	2.70	-11.11	1.60	1.25	0.194	kout	hcs01	1.6	9.1	0.32	1.2	8.5	0.18	0.7	8.8	0.06
108.77	1.34	-7.58	0.66	0.88	0.080	kout	hcs01	1.2	9.0	0.15	0.8	8.3	0.07	0.3	8.6	0.01
108.78	-0.83	-49.71	1.50	5.00	0.182	kout	hcs01	5.4	11.5	0.21	4.7	10.5	0.16	4.1	10.6	0.12
108.87	-0.92	-50.34	1.30	5.06	0.157	kout	hcs01	5.5	11.5	0.19	4.8	10.5	0.14	4.2	10.6	0.11
108.89	0.32	-52.61	50.00	5.29	6.050	kout	hcs01	5.7	11.7	7.02	5.0	10.7	5.40	4.4	10.7	4.19
108.96	-0.34	-48.07	10.00	4.83	1.210	kout	hcs01	5.2	11.3	1.40	4.5	10.4	1.05	4.0	10.5	0.83
108.97	0.31	-56.09	1.10	5.65	0.133	kout	hcs01	6.1	12.0	0.16	5.3	10.9	0.12	4.7	11.0	0.09
109.02	-0.25	-47.12	0.90	4.73	0.109	kout	hcs01	5.1	11.3	0.13	4.4	10.3	0.09	3.9	10.4	0.07
109.11	-0.86	-48.82	2.60	4.89	0.315	kout	hcs01	5.3	11.4	0.37	4.6	10.5	0.28	4.0	10.5	0.21
109.32	0.25	-55.48	3.80	5.57	0.460	kout	hcs01	6.0	11.9	0.53	5.2	10.9	0.40	4.6	10.9	0.31
109.35	-0.37	-56.85	1.00	5.71	0.121	kout	hcs01	6.2	12.0	0.14	5.4	11.0	0.11	4.7	11.0	0.08
109.37	0.39	-53.93	0.87	5.40	0.105	kout	hcs01	5.8	11.8	0.12	5.1	10.8	0.09	4.5	10.8	0.07
109.50	6.50	-9.20		1.03	0.229	kout	sod91	1.4	9.1	0.42	1.0	8.4	0.22	0.6	8.7	0.08
109.56	1.62	-52.63	1.50	5.26	0.182	kout	hcs01	5.7	11.7	0.21	4.9	10.7	0.16	4.4	10.8	0.13
109.62	-1.34	-48.13	1.10	4.80	0.133	kout	hcs01	5.2	11.4	0.16	4.5	10.4	0.12	3.9	10.5	0.09
109.64	1.94	-56.86	7.60	5.70	0.920	kout	hcs01	6.2	12.1	1.09	5.4	11.0	0.83	4.7	11.0	0.63
109.79	1.99	-60.65	2.00	6.11	0.242	kout	hcs01	6.6	12.4	0.28	5.7	11.3	0.21	5.1	11.3	0.17
109.86	-1.29	-34.33	1.60	3.43	0.194	kout	hcs01	3.8	10.4	0.24	3.2	9.6	0.17	2.7	9.8	0.12
109.88	2.85	-81.29	1.30	8.63	0.157	kout	hcs01	9.2	14.5	0.18	8.1	13.2	0.14	7.2	12.9	0.11
109.89	1.87	-59.70	1.60	6.00	0.194	kout	hcs01	6.5	12.3	0.23	5.6	11.2	0.17	5.0	11.2	0.13
109.89	3.05	-65.17	1.40	6.62	0.169	kout	hcs01	7.1	12.8	0.19	6.2	11.7	0.15	5.5	11.6	0.12
109.96	0.46	-53.91	4.80	5.37	0.581	kout	hcs01	5.8	11.8	0.68	5.0	10.8	0.50	4.4	10.9	0.39
109.97	-0.24	-52.70	1.40	5.24	0.169	kout	hcs01	5.7	11.7	0.20	4.9	10.7	0.15	4.3	10.8	0.11
109.99	0.87	-52.39	3.10	5.21	0.375	kout	hcs01	5.6	11.7	0.43	4.9	10.7	0.33	4.3	10.8	0.26
110.00	0.00	-52.10		5.18	91.201	kout	sod91	5.6	11.7	106.59	4.9	10.7	81.61	4.3	10.7	62.85
110.05	-0.17	-50.46	66.00	5.00	7.986	kout	hcs01	5.4	11.5	9.31	4.7	10.6	7.06	4.1	10.6	5.37
110.05	1.78	-5.57	0.59	0.63	0.071	kout	hcs01	1.0	8.9	0.18	0.6	8.2	0.06	0.1	8.5	
110.22	2.51	-63.59	2.20	6.42	0.266	kout	hcs01	6.9	12.7	0.31	6.0	11.6	0.23	5.3	11.5	0.18
110.24	0.03	-52.32	10.00	5.19	1.210	kout	hcs01	5.6	11.7	1.41	4.9	10.7	1.08	4.3	10.8	0.83

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s^{-1}	$10^3 \text{ K km s}^{-1} \text{ pc}^2$	kpc	$10^5 M_{\odot}$			kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
110.26	1.06	-53.87	1.10	5.35	0.133	kout	hcs01	5.8	11.8	0.16	5.0	10.8	0.12	4.4	10.9	0.09
110.28	-0.94	-39.17	1.10	3.87	0.133	kout	hcs01	4.3	10.7	0.16	3.6	9.9	0.12	3.1	10.0	0.09
110.32	1.26	-56.90	5.60	5.67	0.678	kout	hcs01	6.1	12.1	0.78	5.3	11.0	0.59	4.7	11.0	0.47
110.32	3.45	-71.96	1.10	7.41	0.133	kout	hcs01	7.9	13.5	0.15	7.0	12.3	0.12	6.2	12.1	0.09
110.34	-0.63	-36.62	0.72	3.62	0.087	kout	hcs01	4.0	10.6	0.11	3.4	9.7	0.08	2.9	9.9	0.06
110.36	3.63	-74.11	0.89	7.68	0.108	kout	hcs01	8.2	13.7	0.12	7.2	12.5	0.09	6.4	12.3	0.08
110.40	-0.51	-45.50	72.00	4.49	8.712	kout	hcs01	4.9	11.2	10.38	4.2	10.3	7.62	3.7	10.4	5.92
110.44	1.63	-59.45	1.10	5.94	0.133	kout	hcs01	6.4	12.3	0.15	5.6	11.2	0.12	4.9	11.2	0.09
110.45	-1.65	-48.80	1.10	4.82	0.133	kout	hcs01	5.2	11.4	0.15	4.5	10.5	0.12	3.9	10.5	0.09
110.51	1.03	-51.80	0.87	5.12	0.105	kout	hcs01	5.5	11.7	0.12	4.8	10.7	0.09	4.2	10.7	0.07
110.56	0.18	-45.90	0.86	4.52	0.104	kout	hcs01	4.9	11.2	0.12	4.2	10.3	0.09	3.7	10.4	0.07
110.58	-0.08	-53.52	5.40	5.29	0.653	kout	hcs01	5.7	11.8	0.76	5.0	10.8	0.58	4.4	10.8	0.45
110.60	-2.16	-37.41	1.40	3.69	0.169	kout	hcs01	4.1	10.6	0.21	3.5	9.8	0.15	2.9	9.9	0.10
110.64	-0.92	-48.08	3.10	4.73	0.375	kout	hcs01	5.1	11.4	0.44	4.4	10.4	0.32	3.9	10.5	0.25
110.65	-0.69	-51.27	11.00	5.06	1.331	kout	hcs01	5.5	11.6	1.57	4.8	10.6	1.20	4.2	10.7	0.92
110.66	-0.33	-52.02	4.20	5.13	0.508	kout	hcs01	5.6	11.7	0.61	4.8	10.7	0.44	4.2	10.7	0.34
110.71	2.57	-68.50	3.10	6.97	0.375	kout	hcs01	7.5	13.2	0.43	6.5	12.0	0.33	5.8	11.9	0.26
110.72	-0.60	-49.34	2.90	4.86	0.351	kout	hcs01	5.3	11.5	0.42	4.6	10.5	0.31	4.0	10.6	0.24
110.74	0.23	-57.45	0.82	5.70	0.099	kout	hcs01	6.2	12.1	0.12	5.4	11.1	0.09	4.7	11.1	0.07
110.77	-2.71	-34.75	5.60	3.43	0.678	kout	hcs01	3.8	10.5	0.83	3.2	9.6	0.59	2.7	9.8	0.42
110.77	1.89	-52.98	0.76	5.23	0.092	kout	hcs01	5.7	11.8	0.11	4.9	10.8	0.08	4.3	10.8	0.06
110.80	0.40	-52.19	1.60	5.14	0.194	kout	hcs01	5.6	11.7	0.23	4.8	10.7	0.17	4.2	10.8	0.13
110.88	1.88	-10.46	13.00	1.11	1.573	kout	hcs01	1.4	9.1	2.50	1.0	8.4	1.28	0.6	8.7	0.46
110.89	-0.29	-55.63	1.40	5.50	0.169	kout	hcs01	5.9	12.0	0.19	5.2	11.0	0.15	4.5	11.0	0.11
110.93	1.59	-50.65	0.77	4.98	0.093	kout	hcs01	5.4	11.6	0.11	4.7	10.6	0.08	4.1	10.7	0.06
110.94	-0.04	-52.05	0.79	5.12	0.096	kout	hcs01	5.6	11.7	0.11	4.8	10.7	0.08	4.2	10.8	0.06
110.95	0.61	-50.59	2.20	4.97	0.266	kout	hcs01	5.4	11.6	0.31	4.7	10.6	0.24	4.1	10.7	0.18
110.98	-2.86	-37.11	5.80	3.65	0.702	kout	hcs01	4.0	10.6	0.84	3.4	9.8	0.61	2.9	9.9	0.44
110.99	-0.99	-45.10	0.70	4.42	0.085	kout	hcs01	4.8	11.2	0.10	4.2	10.2	0.08	3.6	10.3	0.06
111.02	2.42	-47.11	1.00	4.62	0.121	kout	hcs01	5.0	11.3	0.14	4.3	10.4	0.10	3.8	10.5	0.08
111.03	3.01	-40.30	0.77	3.95	0.093	kout	hcs01	4.3	10.8	0.11	3.7	10.0	0.08	3.2	10.1	0.06
111.09	-2.34	-47.82	2.70	4.69	0.327	kout	hcs01	5.1	11.4	0.39	4.4	10.4	0.29	3.8	10.5	0.21
111.17	-1.03	-43.10	1.50	4.21	0.182	kout	hcs01	4.6	11.0	0.22	4.0	10.1	0.16	3.4	10.2	0.12
111.19	0.60	-49.22	0.87	4.82	0.105	kout	hcs01	5.2	11.5	0.12	4.5	10.5	0.09	4.0	10.6	0.07
111.20	-2.25	-52.54	0.91	5.17	0.110	kout	hcs01	5.6	11.7	0.13	4.9	10.8	0.10	4.2	10.8	0.07
111.20	-0.84	-52.98	1.10	5.21	0.133	kout	hcs01	5.6	11.8	0.15	4.9	10.8	0.12	4.3	10.8	0.09
111.20	3.21	-71.61	1.20	7.33	0.145	kout	hcs01	7.9	13.5	0.17	6.9	12.3	0.13	6.1	12.1	0.10
111.22	-2.26	-49.77	2.20	4.88	0.266	kout	hcs01	5.3	11.5	0.31	4.6	10.6	0.24	4.0	10.6	0.18
111.23	1.00	-57.96	0.81	5.73	0.098	kout	hcs01	6.2	12.2	0.11	5.4	11.1	0.09	4.8	11.1	0.07
111.27	2.30	-49.26	4.30	4.83	0.520	kout	hcs01	5.2	11.5	0.60	4.5	10.5	0.45	4.0	10.6	0.36
111.28	-1.44	-39.84	15.00	3.89	1.815	kout	hcs01	4.3	10.8	2.22	3.7	9.9	1.64	3.1	10.1	1.15
111.30	-0.59	-48.54	2.80	4.74	0.339	kout	hcs01	5.2	11.4	0.41	4.5	10.5	0.31	3.9	10.5	0.23
111.32	-0.68	-45.00	9.70	4.39	1.174	kout	hcs01	4.8	11.2	1.40	4.1	10.2	1.02	3.6	10.3	0.79
111.32	3.36	-65.79	1.20	6.63	0.145	kout	hcs01	7.1	12.9	0.17	6.2	11.8	0.13	5.5	11.7	0.10
111.37	0.46	-50.58	3.60	4.95	0.436	kout	hcs01	5.4	11.6	0.52	4.7	10.6	0.39	4.1	10.7	0.30
111.38	-1.55	-36.27	0.69	3.54	0.083	kout	hcs01	3.9	10.6	0.10	3.3	9.7	0.07	2.8	9.9	0.05
111.40	-2.60	-36.77	1.50	3.59	0.182	kout	hcs01	4.0	10.6	0.23	3.4	9.8	0.16	2.8	9.9	0.11
111.43	-2.64	-46.59	1.40	4.55	0.169	kout	hcs01	5.0	11.3	0.20	4.3	10.4	0.15	3.7	10.4	0.11
111.44	1.13	-49.67	1.00	4.85	0.121	kout	hcs01	5.3	11.5	0.14	4.6	10.6	0.11	4.0	10.6	0.08
111.45	1.23	-47.21	1.20	4.60	0.145	kout	hcs01	5.0	11.3	0.17	4.3	10.4	0.13	3.8	10.5	0.10
111.49	0.73	-53.81	200.00	5.28	24.200	kout	hcs01	5.7	11.9	28.20	5.0	10.8	21.70	4.4	10.9	16.81
111.49	1.28	-46.17	3.60	4.50	0.436	kout	hcs01	4.9	11.3	0.52	4.2	10.3	0.38	3.7	10.4	0.29
111.50	-3.00	-41.70	4.07	27.542	kout	sod91	4.4	10.9	32.19	3.8	10.0	24.01	3.2	10.2	17.03	
111.50	2.00	-10.50	1.10	5.370	kout	sod91	1.4	9.1	8.70	1.0	8.4	4.44	0.6	8.7	1.60	
111.57	-2.73	-39.52	33.00	3.85	3.993	kout	hcs01	4.2	10.8	4.75	3.6	9.9	3.49	3.1	10.0	2.59
111.61	-2.69	-37.91	1.90	3.69	0.230	kout	hcs01	4.1	10.7	0.28	3.5	9.8	0.21	2.9	10.0	0.14
111.64	1.32	-43.43	0.89	4.22	0.108	kout	hcs01	4.6	11.1	0.13	4.0	10.2	0.10	3.4	10.3	0.07
111.67	-2.29	-47.11	5.00	4.59	0.605	kout	hcs01	5.0	11.3	0.72	4.3	10.4	0.53	3.7	10.5	0.39
111.68	3.17	-68.98	1.60	6.99	0.194	kout	hcs01	7.5	13.3	0.22	6.6	12.1	0.17	5.8	11.9	0.13
111.70	0.01	-30.14	1.10	2.94	0.133	kout	hcs01	3.3	10.2	0.17	2.8	9.4	0.12	2.3	9.6	0.08
111.70	2.61	-56.17	3.00	5.53	0.363	kout	hcs01	6.0	12.1	0.43	5.2	11.0	0.32	4.6	11.0	0.25
111.70	4.20	-29.53	1.60	2.90	0.194	kout	hcs01	3.2	10.2	0.24	2.7	9.4	0.17	2.3	9.6	0.12
111.71	2.48	-54.70	4.60	5.37	0.557	kout	hcs01	5.8	11.9	0.65	5.0	10.9	0.48	4.4	11.0	0.37
111.84	1.87	-51.99	0.83	5.08	0.100	kout	hcs01	5.5	11.7	0.12	4.8	10.7	0.09	4.2	10.8	0.07

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s^{-1}	$10^3 \text{ K km s}^{-1} \text{ pc}^2$	kpc	$10^5 M_{\odot}$	(7)	(8)	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
111.89	-2.73	-36.90	1.00	3.58	0.121	kout	hcs01	3.9	10.6	0.14	3.4	9.8	0.11	2.8	9.9	0.07
111.90	2.77	-78.40	3.10	8.18	0.375	kout	hcs01	8.8	14.3	0.43	7.7	13.0	0.33	6.8	12.7	0.26
111.92	0.93	-50.11	17.00	4.87	2.057	kout	hcs01	5.3	11.6	2.44	4.6	10.6	1.84	4.0	10.7	1.39
112.05	2.35	-46.01	0.92	4.46	0.111	kout	hcs01	4.9	11.3	0.13	4.2	10.3	0.10	3.7	10.4	0.08
112.07	2.14	-52.67	0.73	5.14	0.088	kout	hcs01	5.6	11.8	0.10	4.8	10.8	0.08	4.2	10.8	0.06
112.09	2.75	-54.64	1.20	5.35	0.145	kout	hcs01	5.8	11.9	0.17	5.0	10.9	0.13	4.4	11.0	0.10
112.13	2.39	-78.74	1.10	8.21	0.133	kout	hcs01	8.8	14.4	0.15	7.7	13.0	0.12	6.8	12.7	0.09
112.17	-2.30	-37.65	20.00	3.64	2.420	kout	hcs01	4.0	10.7	2.92	3.4	9.8	2.11	2.9	10.0	1.54
112.18	-1.86	-45.14	6.50	4.36	0.787	kout	hcs01	4.8	11.2	0.95	4.1	10.3	0.70	3.5	10.4	0.51
112.20	5.21	-52.70	0.89	5.17	0.108	kout	hcs01	5.6	11.8	0.13	4.8	10.8	0.09	4.3	10.9	0.07
112.22	-2.54	-44.53	0.77	4.31	0.093	kout	hcs01	4.7	11.2	0.11	4.0	10.2	0.08	3.5	10.3	0.06
112.27	-1.08	-42.56	0.94	4.10	0.114	kout	hcs01	4.5	11.0	0.14	3.9	10.1	0.10	3.3	10.2	0.07
112.31	2.50	-78.14	0.77	8.13	0.093	kout	hcs01	8.7	14.3	0.11	7.6	13.0	0.08	6.7	12.7	0.06
112.62	-0.78	-33.14	0.71	3.18	0.086	kout	hcs01	3.5	10.4	0.10	3.0	9.6	0.08	2.5	9.7	0.05
112.73	2.70	-16.19	6.80	1.60	0.823	kout	hcs01	1.9	9.4	1.16	1.5	8.7	0.72	1.1	9.0	0.39
112.86	-0.69	-35.33	2.10	3.38	0.254	kout	hcs01	3.7	10.5	0.30	3.2	9.7	0.23	2.7	9.8	0.16
112.90	0.34	-52.42	0.93	5.07	0.113	kout	hcs01	5.5	11.8	0.13	4.8	10.8	0.10	4.2	10.8	0.08
112.99	-2.18	-34.98	1.20	3.34	0.145	kout	hcs01	3.7	10.5	0.18	3.1	9.7	0.12	2.6	9.8	0.09
113.03	-1.52	-30.52	0.99	2.92	0.120	kout	hcs01	3.3	10.2	0.15	2.7	9.4	0.10	2.2	9.6	0.07
113.46	0.94	-59.37	0.87	5.80	0.105	kout	hcs01	6.3	12.4	0.12	5.4	11.3	0.09	4.8	11.3	0.07
113.49	1.61	-12.09	0.96	1.19	0.116	kout	hcs01	1.5	9.2	0.18	1.1	8.5	0.10	0.7	8.8	0.04
113.60	-0.90	-49.25	2.10	4.71	0.254	kout	hcs01	5.1	11.6	0.30	4.4	10.6	0.22	3.8	10.6	0.17
113.70	-0.62	-43.19	1.80	4.10	0.218	kout	hcs01	4.5	11.1	0.26	3.9	10.2	0.20	3.3	10.3	0.14
113.87	-0.19	-38.59	1.10	3.64	0.133	kout	hcs01	4.0	10.8	0.16	3.4	9.9	0.12	2.9	10.0	0.08
114.09	-0.58	-36.19	1.00	3.41	0.121	kout	hcs01	3.8	10.6	0.15	3.2	9.8	0.11	2.7	9.9	0.08
114.12	-1.15	-32.95	0.69	3.10	0.083	kout	hcs01	3.5	10.4	0.11	2.9	9.6	0.07	2.4	9.7	0.05
114.16	2.04	-65.99	1.30	6.54	0.157	kout	hcs01	7.0	13.1	0.18	6.1	11.9	0.14	5.4	11.8	0.11
114.20	2.66	-51.63	1.40	4.95	0.169	kout	hcs01	5.4	11.8	0.20	4.6	10.8	0.15	4.1	10.8	0.12
114.21	-0.98	-31.87	0.91	3.00	0.110	kout	hcs01	3.3	10.3	0.13	2.8	9.5	0.10	2.3	9.7	0.06
114.24	0.33	-53.87	1.50	5.17	0.182	kout	hcs01	5.6	12.0	0.21	4.9	10.9	0.16	4.2	10.9	0.12
114.33	0.79	-101.15		12.35	0.140	kout	bw94	12.7	17.9	0.15	11.1	16.1	0.11	9.6	15.2	0.08
114.41	3.21	-69.82	0.77	7.01	0.093	kout	hcs01	7.5	13.5	0.11	6.6	12.3	0.08	5.8	12.1	0.06
114.47	-0.89	-46.94	0.77	4.44	0.093	kout	hcs01	4.8	11.4	0.11	4.2	10.4	0.08	3.6	10.5	0.06
114.48	2.22	-64.34	0.78	6.34	0.094	kout	hcs01	6.8	12.9	0.11	6.0	11.8	0.08	5.2	11.7	0.06
114.54	2.88	-57.11	0.87	5.52	0.105	kout	hcs01	6.0	12.2	0.12	5.2	11.2	0.09	4.6	11.2	0.07
114.56	2.91	-72.09	0.97	7.30	0.117	kout	hcs01	7.8	13.7	0.13	6.8	12.5	0.10	6.0	12.3	0.08
114.57	-0.19	-37.56	1.30	3.52	0.157	kout	hcs01	3.9	10.7	0.19	3.3	9.8	0.14	2.8	10.0	0.10
114.58	-0.42	-49.68	10.00	4.72	1.210	kout	hcs01	5.1	11.6	1.41	4.4	10.6	1.05	3.8	10.7	0.78
114.89	3.81	-22.32	0.92	2.10	0.111	kout	hcs01	2.4	9.8	0.14	2.0	9.0	0.10	1.6	9.3	0.06
114.93	3.18	-64.42	1.10	6.35	0.133	kout	hcs01	6.8	13.0	0.15	6.0	11.8	0.12	5.2	11.7	0.09
114.98	4.88	-18.27	0.60	1.73	0.073	kout	hcs01	2.0	9.5	0.10	1.6	8.8	0.06	1.2	9.1	0.04
115.02	1.05	-13.06	1.40	1.24	0.169	kout	hcs01	1.5	9.3	0.25	1.2	8.6	0.16	0.8	8.8	0.07
115.14	-1.51	-40.54	3.40	3.79	0.411	kout	hcs01	4.2	10.9	0.50	3.6	10.0	0.37	3.0	10.2	0.26
115.26	3.62	-60.99	1.00	5.95	0.121	kout	hcs01	6.4	12.6	0.14	5.6	11.5	0.11	4.9	11.5	0.08
115.38	2.06	-10.95	1.30	1.04	0.157	kout	hcs01	1.3	9.2	0.25	1.0	8.5	0.15	0.6	8.8	0.05
115.58	3.97	-24.83	9.40	2.31	1.137	kout	hcs01	2.6	9.9	1.44	2.2	9.1	1.03	1.8	9.4	0.69
115.71	-1.66	-40.16	6.00	3.73	0.726	kout	hcs01	4.1	10.9	0.88	3.5	10.0	0.64	3.0	10.1	0.47
115.82	3.81	-67.34	1.10	6.69	0.133	kout	hcs01	7.2	13.3	0.15	6.3	12.1	0.12	5.5	12.0	0.09
116.02	1.65	-8.08	1.10	0.77	0.133	kout	hcs01	1.1	9.0	0.27	0.7	8.3	0.11	0.3	8.6	0.02
116.07	4.19	-68.23	0.77	6.81	0.093	kout	hcs01	7.3	13.4	0.11	6.4	12.2	0.08	5.6	12.1	0.06
116.14	-1.63	-42.87	1.10	3.98	0.133	kout	hcs01	4.4	11.1	0.16	3.7	10.2	0.11	3.2	10.3	0.09
116.16	-0.67	-45.04	1.10	4.19	0.133	kout	hcs01	4.6	11.3	0.16	3.9	10.4	0.12	3.4	10.4	0.09
116.34	0.65	-45.85	1.10	4.27	0.133	kout	hcs01	4.7	11.4	0.16	4.0	10.4	0.12	3.5	10.5	0.09
116.58	-2.97	-36.61	1.10	3.37	0.133	kout	hcs01	3.7	10.7	0.16	3.2	9.8	0.12	2.6	10.0	0.08
116.94	-2.24	-44.51	4.10	4.12	0.496	kout	hcs01	4.5	11.3	0.59	3.9	10.3	0.44	3.3	10.4	0.32
117.10	-2.42	-37.92	0.80	3.47	0.097	kout	hcs01	3.8	10.8	0.12	3.3	9.9	0.09	2.7	10.0	0.06
117.15	4.78	-7.47	4.70	0.70	0.569	kout	hcs01	1.0	9.0	1.16	0.7	8.3	0.57	0.3	8.6	0.10
117.19	5.06	-73.29	1.20	7.48	0.145	kout	hcs01	8.0	14.1	0.17	7.0	12.8	0.13	6.1	12.6	0.10
117.26	-0.26	-48.23	1.40	4.49	0.169	kout	hcs01	4.9	11.6	0.20	4.2	10.6	0.15	3.6	10.7	0.11
117.43	1.12	-61.56	1.30	5.94	0.157	kout	hcs01	6.4	12.8	0.18	5.6	11.7	0.14	4.9	11.6	0.11
117.60	2.32	-45.17	0.99	4.17	0.120	kout	hcs01	4.6	11.4	0.15	3.9	10.4	0.10	3.4	10.5	0.08
117.61	0.00	-46.51	1.80	4.30	0.218	kout	hcs01	4.7	11.5	0.26	4.0	10.5	0.19	3.5	10.6	0.14
117.72	3.15	-17.43	7.70	1.58	0.932	kout	hcs01	1.9	9.5	1.35	1.5	8.8	0.84	1.1	9.1	0.45
118.00	5.00	-14.02	1.30	1.27	0.157	kout	hcs01	1.6	9.3	0.25	1.2	8.6	0.14	0.8	8.9	0.06

Table A.2. continued.

l ($^{\circ}$) (1)	b ($^{\circ}$) (2)	V_{lsr} km s^{-1} (3)	L_{CO} $10^3 \text{ K km s}^{-1} \text{ pc}^2$ (4)	D kpc (5)	M_{GMCS} $10^5 M_{\odot}$ (6)	Mark (7)	Ref. (8)	$D_{8.5}$ kpc (9)	$R_{8.5}$ kpc (10)	$M_{8.5}$ $10^5 M_{\odot}$ (11)	$D_{8.0}$ kpc (12)	$R_{8.0}$ kpc (13)	$M_{8.0}$ $10^5 M_{\odot}$ (14)	$D_{8.4}$ kpc (15)	$R_{8.4}$ kpc (16)	$M_{8.4}$ $10^5 M_{\odot}$ (17)
118.12	1.58	-92.50	0.83	10.41	0.100	kout	hcs01	11.2	16.9	0.12	9.8	15.3	0.09	8.4	14.5	0.07
118.46	1.20	-61.22	1.00	5.89	0.121	kout	hcs01	6.4	12.8	0.14	5.5	11.7	0.11	4.8	11.6	0.08
118.57	3.62	-5.59	0.77	0.51	0.093	kout	hcs01	0.8	8.9	0.23	0.5	8.2	0.09	0.1	8.6	
118.62	2.78	-63.24	1.40	6.15	0.169	kout	hcs01	6.6	13.0	0.19	5.8	11.9	0.15	5.1	11.8	0.12
118.66	-0.38	-50.16	0.84	4.66	0.102	kout	hcs01	5.1	11.8	0.12	4.4	10.8	0.09	3.8	10.8	0.07
118.68	-1.33	-39.03	1.20	3.53	0.145	kout	hcs01	3.9	10.9	0.18	3.3	10.0	0.13	2.8	10.1	0.09
118.73	2.90	-67.77	0.92	6.71	0.111	kout	hcs01	7.2	13.6	0.13	6.3	12.3	0.10	5.5	12.2	0.07
118.77	3.13	-69.33	1.60	6.92	0.194	kout	hcs01	7.4	13.7	0.22	6.5	12.5	0.17	5.7	12.3	0.13
118.90	3.19	-20.17	1.90	1.79	0.230	kout	hcs01	2.1	9.7	0.32	1.7	8.9	0.21	1.3	9.2	0.12
119.18	-0.89	-32.94	0.78	2.94	0.094	kout	hcs01	3.3	10.5	0.12	2.8	9.7	0.09	2.3	9.8	0.06
119.22	1.71	-62.46	1.40	6.04	0.169	kout	hcs01	6.5	13.0	0.20	5.7	11.9	0.15	5.0	11.7	0.12
119.41	1.53	-61.60	1.60	5.93	0.194	kout	hcs01	6.4	12.9	0.23	5.6	11.8	0.17	4.9	11.7	0.13
119.42	0.74	-53.88	1.70	5.05	0.206	kout	hcs01	5.5	12.2	0.24	4.7	11.1	0.18	4.1	11.1	0.14
119.51	0.39	-50.22	0.86	4.65	0.104	kout	hcs01	5.1	11.8	0.13	4.4	10.8	0.09	3.8	10.9	0.07
119.58	3.22	-46.78	2.10	4.30	0.254	kout	hcs01	4.7	11.6	0.30	4.0	10.6	0.22	3.5	10.7	0.17
119.60	1.25	-61.49	0.73	5.92	0.088	kout	hcs01	6.4	12.9	0.10	5.6	11.8	0.08	4.9	11.7	0.06
119.64	-0.50	-50.36	1.60	4.66	0.194	kout	hcs01	5.1	11.9	0.23	4.4	10.9	0.17	3.8	10.9	0.13
119.92	1.95	-68.14	1.00	6.75	0.121	kout	hcs01	7.3	13.7	0.14	6.3	12.4	0.11	5.5	12.2	0.08
120.12	-0.18	-49.32	1.20	4.54	0.145	kout	hcs01	5.0	11.8	0.18	4.3	10.8	0.13	3.7	10.8	0.10
120.13	1.45	-65.26	1.20	6.38	0.145	kout	hcs01	6.9	13.4	0.17	6.0	12.2	0.13	5.2	12.0	0.10
120.13	3.46	-68.99	8.00	6.89	0.968	kout	hcs01	7.4	13.8	1.12	6.5	12.6	0.86	5.7	12.3	0.66
120.26	2.89	-18.98	8.40	1.66	1.016	kout	hcs01	1.9	9.6	1.33	1.6	8.9	0.94	1.2	9.2	0.53
120.28	2.12	-50.03	3.30	4.62	0.399	kout	hcs01	5.0	11.9	0.47	4.3	10.9	0.35	3.8	10.9	0.27
120.30	2.85	-67.89	1.00	6.74	0.121	kout	hcs01	7.3	13.7	0.14	6.3	12.5	0.11	5.5	12.3	0.08
120.39	0.13	-48.06	1.80	4.41	0.218	kout	hcs01	4.8	11.7	0.26	4.1	10.7	0.19	3.6	10.8	0.15
120.42	3.63	-71.72	0.89	7.26	0.108	kout	hcs01	7.8	14.2	0.12	6.8	12.9	0.09	6.0	12.6	0.07
120.48	1.11	-60.01	3.70	5.74	0.448	kout	hcs01	6.2	12.8	0.52	5.4	11.7	0.40	4.7	11.6	0.30
120.49	1.78	-62.67	4.90	6.07	0.593	kout	hcs01	6.6	13.1	0.70	5.7	11.9	0.52	5.0	11.8	0.40
120.52	3.65	-38.62	1.50	3.47	0.182	kout	hcs01	3.8	10.9	0.22	3.3	10.0	0.16	2.8	10.2	0.12
120.70	4.20	-11.55	1.10	1.01	0.133	kout	hcs01	1.3	9.2	0.22	0.9	8.5	0.11	0.6	8.8	0.05
120.77	4.98	-9.58	0.63	0.84	0.076	kout	hcs01	1.1	9.1	0.13	0.8	8.4	0.07	0.5	8.7	0.03
120.79	-0.38	-46.18	3.30	4.21	0.399	kout	hcs01	4.6	11.6	0.48	4.0	10.6	0.36	3.4	10.6	0.26
120.80	1.10	-63.70		6.20	1.100	kout	mk88	6.7	13.2	1.28	5.8	12.1	0.96	5.1	11.9	0.74
120.87	1.08	-64.45	3.40	6.29	0.411	kout	hcs01	6.8	13.3	0.48	5.9	12.1	0.36	5.1	12.0	0.27
120.93	1.15	-62.64	11.00	6.06	1.331	kout	hcs01	6.6	13.1	1.58	5.7	12.0	1.18	5.0	11.8	0.91
121.02	-1.39	-19.65	1.50	1.70	0.182	kout	hcs01	2.0	9.7	0.25	1.6	8.9	0.16	1.2	9.2	0.09
121.05	-0.22	-47.23	0.96	4.31	0.116	kout	hcs01	4.7	11.7	0.14	4.1	10.7	0.10	3.5	10.7	0.08
121.46	0.78	-59.76	1.20	5.71	0.145	kout	hcs01	6.2	12.9	0.17	5.4	11.7	0.13	4.7	11.6	0.10
121.52	3.00	-67.98	0.85	6.77	0.103	kout	hcs01	7.3	13.8	0.12	6.4	12.6	0.09	5.6	12.3	0.07
121.54	3.85	-40.17	0.78	3.60	0.094	kout	hcs01	4.0	11.1	0.12	3.4	10.2	0.08	2.9	10.3	0.06
121.69	-0.94	-44.70	0.85	4.04	0.103	kout	hcs01	4.4	11.5	0.12	3.8	10.5	0.09	3.2	10.6	0.06
121.96	4.10	-67.94	1.70	6.79	0.206	kout	hcs01	7.3	13.8	0.24	6.4	12.6	0.18	5.6	12.4	0.14
122.00	0.00	-17.60		1.51	1.175	kout	sod91	1.8	9.6	1.67	1.4	8.8	1.01	1.0	9.1	0.52
122.00	3.68	-5.06	1.30	0.43	0.157	kout	hcs01	0.7	8.9	0.42	0.4	8.2	0.14	0.1	8.5	0.01
122.13	3.18	-61.28	1.00	5.92	0.121	kout	hcs01	6.4	13.1	0.14	5.6	11.9	0.11	4.8	11.8	0.08
122.14	-1.37	-13.85	1.40	1.18	0.169	kout	hcs01	1.5	9.4	0.27	1.1	8.6	0.15	0.7	8.9	0.06
122.18	3.00	-60.12	0.71	5.78	0.086	kout	hcs01	6.3	13.0	0.10	5.4	11.8	0.08	4.7	11.7	0.06
122.20	-0.87	-42.30	1.20	3.79	0.145	kout	hcs01	4.2	11.3	0.18	3.6	10.3	0.13	3.0	10.4	0.09
122.22	2.70	-60.53	1.10	5.83	0.133	kout	hcs01	6.3	13.0	0.16	5.5	11.9	0.12	4.8	11.8	0.09
122.26	4.08	-68.55	1.70	6.88	0.206	kout	hcs01	7.4	13.9	0.24	6.5	12.7	0.18	5.6	12.5	0.14
122.45	2.62	-55.17	1.20	5.19	0.145	kout	hcs01	5.6	12.5	0.17	4.9	11.4	0.13	4.2	11.4	0.09
122.52	1.66	-58.86	0.72	5.62	0.087	kout	hcs01	6.1	12.8	0.10	5.3	11.7	0.08	4.6	11.6	0.06
122.53	1.55	-57.22	2.10	5.42	0.254	kout	hcs01	5.9	12.7	0.30	5.1	11.6	0.22	4.4	11.5	0.17
122.56	1.74	-96.25	0.89	11.60	0.108	kout	hcs01	12.5	18.5	0.13	10.9	16.6	0.10	9.2	15.6	0.07
122.59	-0.62	-19.09	11.00	1.63	1.331	kout	hcs01	1.9	9.7	1.81	1.5	8.9	1.13	1.1	9.2	0.61
122.63	2.51	-66.57	5.00	6.60	0.605	kout	hcs01	7.1	13.7	0.70	6.2	12.5	0.53	5.4	12.3	0.41
122.80	2.89	-63.95	2.40	6.27	0.290	kout	hcs01	6.8	13.4	0.34	5.9	12.2	0.26	5.1	12.1	0.19
122.90	1.36	-55.75	0.72	5.25	0.087	kout	hcs01	5.7	12.5	0.10	4.9	11.5	0.08	4.3	11.4	0.06
122.96	3.14	-10.27	1.40	0.87	0.169	kout	hcs01	1.1	9.2	0.27	0.8	8.5	0.14	0.5	8.8	0.06
123.06	-6.31	-30.40	1.10	2.20	0.133	stel	css90			0.13			0.13			0.13
123.06	-0.78	-44.77	21.00	4.04	2.541	kout	hcs01	4.4	11.5	3.01	3.8	10.6	2.25	3.2	10.6	1.59
123.24	3.07	-63.79	1.40	6.26	0.169	kout	hcs01	6.8	13.5	0.20	5.9	12.2	0.15	5.1	12.1	0.11
123.45	3.21	-61.50	9.20	5.97	1.113	kout	hcs01	6.5	13.2	1.32	5.6	12.0	0.98	4.9	11.9	0.75
123.50	2.00	-66.40		6.40	0.110	kout	mk88	7.1	13.8	0.14	6.2	12.5	0.10	5.4	12.3	0.08
123.62	-1.36	-21.23	0.96	1.80	0.116	kout	hcs01	2.1	9.8	0.16	1.7	9.0	0.10	1.3	9.3	0.06

Table A.2. continued.

l (°) (1)	b (°) (2)	V_{lsr} km s^{-1} (3)	L_{CO} $10^3 \text{ K km s}^{-1} \text{ pc}^2$ (4)	D kpc (5)	M_{GMCs} $10^5 M_{\odot}$ (6)	Mark (7)	Ref. (8)	$D_{8.5}$ kpc (9)	$R_{8.5}$ kpc (10)	$M_{8.5}$ $10^5 M_{\odot}$ (11)	$D_{8.0}$ kpc (12)	$R_{8.0}$ kpc (13)	$M_{8.0}$ $10^5 M_{\odot}$ (14)	$D_{8.4}$ kpc (15)	$R_{8.4}$ kpc (16)	$M_{8.4}$ $10^5 M_{\odot}$ (17)
123.68	2.86	-63.72	1.80	6.26	0.218	kout	hcs01	6.8	13.5	0.26	5.9	12.3	0.19	5.1	12.1	0.14
123.94	-0.12	-44.03	2.30	3.96	0.278	kout	hcs01	4.3	11.5	0.33	3.7	10.5	0.24	3.2	10.6	0.18
124.01	1.93	-51.53	0.78	4.78	0.094	kout	hcs01	5.2	12.2	0.11	4.5	11.1	0.08	3.9	11.1	0.06
124.12	-0.18	-44.61	1.20	4.02	0.145	kout	hcs01	4.4	11.6	0.17	3.8	10.6	0.13	3.2	10.7	0.09
124.26	-0.17	-46.45	0.87	4.21	0.105	kout	hcs01	4.6	11.7	0.13	4.0	10.7	0.09	3.4	10.8	0.07
124.28	0.22	-43.59	1.70	3.91	0.206	kout	hcs01	4.3	11.5	0.25	3.7	10.5	0.18	3.1	10.6	0.13
124.33	0.50	-46.07	1.70	4.17	0.206	kout	hcs01	4.6	11.7	0.25	3.9	10.7	0.18	3.4	10.8	0.14
124.39	1.98	-71.98	2.60	7.42	0.315	kout	hcs01	8.0	14.6	0.37	7.0	13.3	0.28	6.0	12.9	0.21
124.60	2.54	-86.91		10.43	0.520	kout	bw94	10.7	17.1	0.55	9.4	15.4	0.42	8.0	14.6	0.31
124.60	3.15	-11.01	0.97	0.92	0.117	kout	hcs01	1.2	9.2	0.20	0.9	8.5	0.11	0.5	8.8	0.03
124.61	2.50	-87.43	4.70	10.07	0.569	kout	hcs01	10.8	17.2	0.65	9.5	15.5	0.51	8.1	14.7	0.37
124.78	2.93	-61.85	1.10	6.05	0.133	kout	hcs01	6.5	13.4	0.15	5.7	12.2	0.12	4.9	12.0	0.09
124.94	-0.16	-42.01	0.75	3.75	0.091	kout	hcs01	4.1	11.4	0.11	3.5	10.4	0.08	3.0	10.5	0.06
125.08	0.78	-67.75	2.50	6.84	0.303	kout	hcs01	7.4	14.1	0.35	6.4	12.8	0.27	5.6	12.5	0.20
125.29	0.58	-65.85	1.20	6.58	0.145	kout	hcs01	7.1	13.9	0.17	6.2	12.6	0.13	5.4	12.4	0.10
125.58	2.07	-53.78	4.90	5.06	0.593	kout	hcs01	5.5	12.5	0.70	4.7	11.4	0.51	4.1	11.4	0.39
125.78	1.66	-65.47	3.50	6.55	0.424	kout	hcs01	7.1	13.9	0.50	6.2	12.6	0.38	5.3	12.4	0.28
126.03	4.37	-7.92	0.79	0.65	0.096	kout	hcs01	0.9	9.1	0.18	0.6	8.4	0.08	0.3	8.7	0.02
126.40	-0.79	-11.86	9.70	0.97	1.174	kout	hcs01	1.2	9.3	1.80	0.9	8.6	1.01	0.6	8.9	0.45
126.43	-0.24	-57.89	1.50	5.57	0.182	kout	hcs01	6.0	13.0	0.21	5.2	11.9	0.16	4.5	11.8	0.12
127.00	-1.00	-11.80		0.96	4.365	kout	sod91	1.2	9.3	6.82	0.9	8.6	3.84	0.6	8.8	1.71
127.52	1.86	-80.95	1.40	9.19	0.169	kout	hcs01	9.9	16.5	0.20	8.6	14.9	0.15	7.4	14.3	0.11
127.70	-0.11	-49.78	0.82	4.62	0.099	kout	hcs01	5.0	12.3	0.12	4.3	11.2	0.09	3.7	11.2	0.06
127.87	1.17	-59.33	0.79	5.81	0.096	kout	hcs01	6.3	13.3	0.11	5.5	12.1	0.09	4.7	12.0	0.06
128.30	1.75	-48.24	0.94	4.47	0.114	kout	hcs01	4.9	12.1	0.14	4.2	11.1	0.10	3.6	11.1	0.07
128.55	-0.27	-14.33	4.00	1.17	0.484	kout	hcs01	1.4	9.4	0.69	1.1	8.7	0.43	0.7	9.0	0.17
128.62	1.22	-51.83	0.92	4.90	0.111	kout	hcs01	5.3	12.5	0.13	4.6	11.4	0.10	4.0	11.4	0.07
128.66	1.45	-54.30	0.88	5.20	0.106	kout	hcs01	5.7	12.8	0.13	4.9	11.7	0.09	4.2	11.6	0.07
128.76	1.94	-82.04	3.30	9.57	0.399	kout	hcs01	10.3	17.0	0.46	9.0	15.3	0.35	7.7	14.6	0.26
128.81	1.33	-83.16	1.60	9.80	0.194	kout	hcs01	10.6	17.2	0.23	9.2	15.5	0.17	7.8	14.7	0.12
128.82	0.06	-32.89	1.60	2.84	0.194	kout	hcs01	3.2	10.8	0.25	2.7	9.9	0.18	2.2	10.0	0.12
128.99	-0.16	-36.78	0.90	3.23	0.109	kout	hcs01	3.6	11.1	0.14	3.0	10.2	0.09	2.5	10.3	0.07
129.16	0.62	-38.81	0.73	3.44	0.088	kout	hcs01	3.8	11.3	0.11	3.2	10.4	0.08	2.7	10.4	0.05
129.20	-0.37	-37.55	1.00	3.31	0.121	kout	hcs01	3.7	11.2	0.15	3.1	10.3	0.11	2.6	10.4	0.07
129.39	-0.26	-34.45	0.81	3.00	0.098	kout	hcs01	3.3	10.9	0.12	2.8	10.0	0.09	2.3	10.2	0.06
130.07	5.08	-14.09	0.64	1.15	0.077	kout	hcs01	1.4	9.5	0.11	1.1	8.7	0.07	0.8	9.0	0.04
130.59	1.83	-44.61	3.10	4.11	0.375	kout	hcs01	4.5	11.9	0.45	3.9	10.9	0.34	3.3	10.9	0.24
130.66	0.22	-60.08	0.75	6.07	0.091	kout	hcs01	6.6	13.7	0.11	5.7	12.5	0.08	4.9	12.3	0.06
131.79	-0.70	-53.83	2.30	5.29	0.278	kout	hcs01	5.8	13.1	0.33	5.0	11.9	0.25	4.2	11.8	0.18
131.86	1.33	-78.76	0.76	9.43	0.092	kout	hcs01	10.2	17.1	0.11	8.9	15.4	0.08	7.5	14.6	0.06
132.19	-0.88	-55.40	3.80	5.52	0.460	kout	hcs01	6.0	13.3	0.54	5.2	12.1	0.41	4.4	11.9	0.29
132.54	-1.62	-37.55	0.84	3.38	0.102	kout	hcs01	3.7	11.4	0.12	3.2	10.4	0.09	2.7	10.5	0.07
133.00	0.90	-43.00	6.22	2.50	0.260	stel	dlp+96			0.26			0.26			0.26
133.29	0.81	-48.12	0.89	4.63	0.108	kout	hcs01	5.1	12.5	0.13	4.4	11.4	0.10	3.7	11.4	0.07
133.37	-0.08	-15.57	1.50	1.27	0.182	kout	hcs01	1.5	9.6	0.25	1.2	8.9	0.16	0.9	9.1	0.09
133.37	1.25	-40.68	0.90	3.74	0.109	kout	hcs01	4.1	11.7	0.13	3.5	10.7	0.10	3.0	10.8	0.07
133.39	1.01	-42.43	44.00	3.95	5.324	kout	hcs01	4.3	11.9	6.31	3.7	10.9	4.67	3.2	10.9	3.49
133.41	0.25	-50.53	19.00	4.95	2.299	kout	hcs01	5.4	12.8	2.74	4.6	11.7	1.99	4.0	11.6	1.50
133.47	0.02	-48.27	1.80	4.66	0.218	kout	hcs01	5.1	12.6	0.26	4.4	11.5	0.19	3.7	11.4	0.14
133.50	9.00	-15.70		1.31	2.884	kout	sod91	1.5	9.6	3.78	1.2	8.9	2.42	1.0	9.2	1.68
133.67	0.62	-44.55	2.80	4.21	0.339	kout	hcs01	4.6	12.1	0.40	4.0	11.1	0.31	3.4	11.1	0.22
133.70	1.20	-40.90	7.97	2.50	0.330	stel	dlp+96			0.33			0.33			0.33
133.79	1.26	-39.31	1.50	3.60	0.182	kout	hcs01	4.0	11.6	0.22	3.4	10.6	0.16	2.9	10.7	0.12
133.90	0.40	-47.60	7.84	2.50	0.330	stel	dlp+96			0.33			0.33			0.33
133.90	1.31	-45.17	0.86	4.30	0.104	kout	hcs01	4.7	12.2	0.12	4.0	11.2	0.09	3.5	11.2	0.07
134.01	0.65	-48.42	45.00	4.71	5.445	kout	hcs01	5.1	12.6	6.38	4.4	11.5	4.75	3.8	11.5	3.54
134.01	0.60	-46.59	1.20	4.48	0.145	kout	hcs01	4.9	12.4	0.17	4.2	11.3	0.13	3.6	11.3	0.09
134.10	0.80	-48.40	7.04	2.50	0.290	stel	dlp+96			0.29			0.29			0.29
134.29	-1.85	-49.09	1.60	4.82	0.194	kout	hcs01	5.3	12.7	0.23	4.5	11.6	0.17	3.8	11.5	0.12
134.42	-1.62	-47.62	1.00	4.63	0.121	kout	hcs01	5.1	12.6	0.15	4.4	11.5	0.11	3.7	11.4	0.08
134.45	-0.14	-13.81	1.80	1.12	0.218	kout	hcs01	1.4	9.5	0.34	1.1	8.8	0.21	0.7	9.0	0.09
134.48	2.20	-30.92	0.68	2.72	0.082	kout	hcs01	3.0	10.8	0.10	2.6	10.0	0.07	2.1	10.1	0.05
134.72	-0.68	-42.90	3.10	4.06	0.375	kout	hcs01	4.4	12.1	0.44	3.8	11.0	0.33	3.2	11.0	0.23
134.84	1.41	-40.94	0.76	3.83	0.092	kout	hcs01	4.2	11.8	0.11	3.6	10.8	0.08	3.1	10.9	0.06
134.91	1.59	-39.22	0.69	3.63	0.083	kout	hcs01	4.0	11.7	0.10	3.4	10.7	0.07	2.9	10.7	0.05

Table A.2. continued.

l ($^{\circ}$) (1)	b ($^{\circ}$) (2)	V_{lsr} km s^{-1} (3)	L_{CO} $10^3 \text{ K km s}^{-1} \text{ pc}^2$ (4)	D kpc (5)	M_{GMCs} $10^5 M_{\odot}$ (6)	Mark (7)	Ref. (8)	$D_{8.5}$ kpc (9)	$R_{8.5}$ kpc (10)	$M_{8.5}$ $10^5 M_{\odot}$ (11)	$D_{8.0}$ kpc (12)	$R_{8.0}$ kpc (13)	$M_{8.0}$ $10^5 M_{\odot}$ (14)	$D_{8.4}$ kpc (15)	$R_{8.4}$ kpc (16)	$M_{8.4}$ $10^5 M_{\odot}$ (17)
135.16	-0.06	-45.02	2.10	4.34	0.254	kout	hcs01	4.7	12.3	0.30	4.1	11.3	0.23	3.5	11.2	0.17
135.24	-0.38	-41.78	1.30	3.95	0.157	kout	hcs01	4.3	12.0	0.19	3.7	11.0	0.14	3.1	11.0	0.10
135.27	1.06	-45.42	1.90	4.40	0.230	kout	hcs01	4.8	12.4	0.27	4.1	11.3	0.20	3.5	11.3	0.15
136.30	0.19	-57.26	1.70	6.16	0.206	kout	hcs01	6.7	14.1	0.24	5.8	12.8	0.18	4.9	12.5	0.13
136.34	-1.72	-10.78	1.20	0.87	0.145	kout	hcs01	1.1	9.3	0.23	0.8	8.6	0.12	0.5	8.9	0.05
136.34	0.85	-74.35	1.30	9.44	0.157	kout	hcs01	10.2	17.4	0.18	8.9	15.7	0.14	7.5	14.8	0.10
136.50	1.20	-36.40	4.40	2.50	0.180	stel	dlp+96			0.18			0.18			0.18
136.62	0.34	-56.80	0.94	6.13	0.114	kout	hcs01	6.7	14.1	0.14	5.8	12.8	0.10	4.9	12.5	0.07
136.70	1.23	-36.88	15.00	3.44	1.815	kout	hcs01	3.8	11.6	2.21	3.2	10.6	1.57	2.7	10.7	1.12
136.79	0.44	-59.57	1.70	6.61	0.206	kout	hcs01	7.2	14.6	0.24	6.2	13.2	0.18	5.3	12.9	0.13
136.88	0.26	-56.82	1.30	6.16	0.157	kout	hcs01	6.7	14.1	0.19	5.8	12.9	0.14	4.9	12.6	0.10
136.92	1.16	-40.47	8.70	3.87	1.053	kout	hcs01	4.3	12.0	1.30	3.6	10.9	0.91	3.1	11.0	0.68
137.00	1.30	-38.50	9.19	2.50	0.380	stel	dlp+96			0.38			0.38			0.38
137.15	3.13	-50.96	0.92	5.31	0.111	kout	hcs01	5.8	13.3	0.13	5.0	12.1	0.10	4.3	12.0	0.07
137.22	1.36	-40.13	0.92	3.85	0.111	kout	hcs01	4.2	12.0	0.13	3.6	10.9	0.10	3.1	11.0	0.07
137.35	1.80	-38.36	1.20	3.64	0.145	kout	hcs01	4.0	11.8	0.18	3.4	10.8	0.13	2.9	10.8	0.09
137.70	1.50	-38.90	3.86	2.50	0.160	stel	dlp+96			0.16			0.16			0.16
137.72	-0.71	-45.39	0.81	4.56	0.098	kout	hcs01	5.0	12.6	0.12	4.3	11.5	0.09	3.6	11.4	0.06
137.72	4.18	-9.85	0.93	0.80	0.113	kout	hcs01	1.0	9.3	0.18	0.8	8.6	0.11	0.5	8.9	0.04
137.76	-0.97	-103.73	1.60	21.60	0.194	kout	hcs01	23.5	30.4	0.23	20.3	26.8	0.17	15.	22.	0.09
137.95	1.72	-42.72	0.83	4.22	0.100	kout	hcs01	4.6	12.3	0.12	4.0	11.3	0.09	3.4	11.2	0.06
138.00	4.00	-9.80		0.80	0.170	kout	sod91	1.0	9.3	0.27	0.7	8.6	0.13	0.5	8.9	0.07
138.00	2.50	-11.80		0.97	0.224	kout	sod91	1.2	9.4	0.34	0.9	8.7	0.19	0.6	9.0	0.09
138.29	2.42	-12.60	1.20	1.04	0.145	kout	hcs01	1.3	9.5	0.23	1.0	8.8	0.13	0.7	9.0	0.07
138.38	-2.14	-46.63	1.20	4.79	0.145	kout	hcs01	5.2	12.9	0.17	4.5	11.7	0.13	3.8	11.6	0.09
138.50	1.60	-38.70	4.84	2.50	0.200	stel	dlp+96			0.20			0.20			0.20
138.52	-0.81	-45.75	2.50	4.67	0.303	kout	hcs01	5.1	12.8	0.36	4.4	11.7	0.27	3.7	11.5	0.19
138.58	1.74	-37.92	0.98	3.66	0.119	kout	hcs01	4.0	11.8	0.14	3.4	10.8	0.10	2.9	10.9	0.07
138.66	5.16	-15.38	1.20	1.30	0.145	kout	hcs01	1.5	9.7	0.19	1.2	9.0	0.12	0.9	9.2	0.07
139.20	1.00	-39.60	1.71	2.50	0.071	stel	dlp+96			0.07			0.07			0.07
139.22	2.71	-51.19	0.73	5.56	0.088	kout	hcs01	6.0	13.7	0.10	5.2	12.4	0.08	4.5	12.2	0.06
139.24	-2.57	-13.87	0.79	1.16	0.096	kout	hcs01	1.4	9.6	0.14	1.1	8.9	0.09	0.8	9.1	0.05
139.24	1.01	-39.86	1.90	3.94	0.230	kout	hcs01	4.3	12.1	0.27	3.7	11.1	0.20	3.1	11.1	0.14
139.31	-2.05	-48.73	4.00	5.18	0.484	kout	hcs01	5.6	13.3	0.57	4.9	12.1	0.43	4.1	11.9	0.30
139.36	2.87	-53.02	1.00	5.87	0.121	kout	hcs01	6.4	14.0	0.14	5.5	12.7	0.11	4.7	12.5	0.08
139.41	-0.40	-37.07	0.92	3.59	0.111	kout	hcs01	4.0	11.8	0.14	3.4	10.8	0.10	2.8	10.8	0.07
139.42	-1.50	-49.59	0.97	5.32	0.117	kout	hcs01	5.8	13.4	0.14	5.0	12.2	0.10	4.2	12.0	0.07
139.53	-2.81	-15.26	0.73	1.29	0.088	kout	hcs01	1.5	9.7	0.12	1.2	9.0	0.08	0.9	9.2	0.04
139.72	-0.56	-39.45	0.78	3.92	0.094	kout	hcs01	4.3	12.1	0.11	3.7	11.1	0.08	3.1	11.0	0.06
139.90	0.22	-40.16	2.20	4.02	0.266	kout	hcs01	4.4	12.2	0.32	3.8	11.2	0.24	3.2	11.1	0.17
139.91	2.61	-50.80	0.77	5.58	0.093	kout	hcs01	6.1	13.7	0.11	5.2	12.5	0.08	4.5	12.3	0.06
140.27	2.11	-12.63	3.30	1.06	0.399	kout	hcs01	1.3	9.5	0.60	1.0	8.8	0.36	0.7	9.1	0.17
140.27	1.52	-15.42	0.66	1.31	0.080	kout	hcs01	1.5	9.7	0.10	1.2	9.0	0.07	0.9	9.2	0.04
140.27	3.48	-9.92	0.73	0.82	0.088	kout	hcs01	1.0	9.3	0.13	0.8	8.6	0.08	0.5	8.9	0.03
140.41	4.38	-13.06	0.75	1.11	0.091	kout	hcs01	1.3	9.6	0.12	1.0	8.8	0.07	0.8	9.1	0.05
140.46	0.80	-36.46	0.79	3.58	0.096	kout	hcs01	3.9	11.8	0.11	3.4	10.8	0.09	2.8	10.8	0.06
140.60	-0.10	-39.20	3.22	2.50	0.140	stel	dlp+96			0.14			0.14			0.14
140.60	0.70	-37.90	4.06	2.50	0.170	stel	dlp+96			0.17			0.17			0.17
140.68	4.94	-14.22	0.80	1.22	0.097	kout	hcs01	1.4	9.7	0.13	1.1	8.9	0.08	0.9	9.2	0.05
140.73	-0.98	-38.56	0.96	3.87	0.116	kout	hcs01	4.3	12.1	0.14	3.6	11.1	0.10	3.1	11.0	0.07
140.73	0.82	-38.44	2.70	3.86	0.327	kout	hcs01	4.2	12.1	0.39	3.6	11.0	0.28	3.1	11.0	0.21
140.77	-0.16	-41.09	0.71	4.21	0.086	kout	hcs01	4.6	12.4	0.10	4.0	11.3	0.08	3.3	11.3	0.05
140.85	-0.82	-40.95	1.90	4.20	0.230	kout	hcs01	4.6	12.4	0.28	3.9	11.3	0.20	3.3	11.3	0.14
140.90	-1.10	-40.40	5.61	2.50	0.240	stel	dlp+96			0.24			0.24			0.24
141.00	5.50	-11.10		0.94	0.794	kout	sod91	1.1	9.4	1.09	0.9	8.7	0.73	0.6	9.0	0.32
141.46	-1.18	-40.79	4.60	4.23	0.557	kout	hcs01	4.6	12.5	0.66	4.0	11.4	0.50	3.3	11.3	0.34
141.50	-1.20	-40.80	3.31	2.50	0.140	stel	dlp+96			0.14			0.14			0.14
142.00	1.00	-15.70		1.37	4.467	kout	sod91	1.6	9.8	6.09	1.3	9.0	4.02	1.0	9.3	2.38
143.80	-1.50	-32.20	1.98	2.50	0.083	stel	dlp+96			0.08			0.08			0.08
145.20	2.99	-58.39		8.59	0.150	kout	bw94	8.9	16.6	0.16	7.7	15.0	0.12	6.5	14.3	0.09
145.30	-0.25	-67.60	2.40	11.00	0.120	kout	dgt94	11.8	19.4	0.14	10.2	17.4	0.10	8.3	16.1	0.07
145.40	-0.10	-70.60	1.70	12.00	0.087	kout	dgt94	13.0	20.5	0.10	11.2	18.4	0.08	9.1	16.8	0.05
146.95	0.80	-67.30	2.70	12.00	0.140	kout	dgt94	12.7	20.3	0.16	11.0	18.2	0.12	8.9	16.7	0.08
148.90	0.90	-59.60	3.80	10.00	0.200	kout	dgt94	10.9	18.7	0.24	9.4	16.8	0.18	7.8	15.7	0.12

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
(°)	(°)	km s ⁻¹	10 ³ K km s ⁻¹ pc ²	kpc	10 ⁵ M _⊙			kpc	kpc	10 ⁵ M _⊙	kpc	kpc	10 ⁵ M _⊙	kpc	kpc	10 ⁵ M _⊙
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
150.15	1.10	-55.90	2.10	10.00	0.110	kout	dgt94	10.3	18.2	0.12	8.9	16.3	0.09	7.4	15.3	0.06
151.23	1.02	-53.86		9.91	0.140	kout	bw94	10.2	18.1	0.15	8.8	16.3	0.11	7.3	15.3	0.08
151.50	-1.00	-30.60		3.82	10.471	kout	sod91	4.2	12.4	12.66	3.6	11.3	9.30	3.0	11.2	6.46
154.00	-2.00	-14.40		1.63	2.188	kout	sod91	1.9	10.2	2.97	1.5	9.4	1.85	1.2	9.6	1.19
154.35	2.61	-35.80	7.40	6.00	0.895	stel	css90			0.89			0.89			0.89
154.64	2.45	-38.70	3.00	6.00	0.363	stel	css90			0.36			0.36			0.36
156.89	0.21	-47.44		11.33	0.140	kout	bw94	11.7	19.8	0.15	10.1	17.7	0.11	8.2	16.3	0.07
173.71	2.70	-17.40	7.60	1.80	0.920	stel	css90	1.8	10.3	0.92	1.8	9.8	0.92			
189.03	0.78	2.90	2.20	1.50	0.266	stel	css90	1.5	10.0	0.27	1.5	9.5	0.27			
190.05	0.53	8.40	0.88	1.50	0.106	stel	css90	1.5	10.0	0.11	1.5	9.5	0.11			
194.00	-0.50	20.90		5.90	2.800	kout	mab97	6.1	14.5	2.99	5.3	13.2	2.26	4.5	13.0	1.63
194.25	-0.50	20.00		5.40	1.520	kout	mab97	5.5	13.9	1.58	4.8	12.7	1.20	4.1	12.5	0.88
194.50	-1.26	14.40		3.20	0.210	kout	mab97	3.4	11.8	0.24	2.9	10.8	0.17	2.5	11.0	0.13
194.50	-1.00	22.60		6.40	0.560	kout	mab97	6.6	15.0	0.60	5.7	13.6	0.44	4.9	13.3	0.33
195.50	0.00	20.40		4.90	0.190	kout	mab97	5.1	13.4	0.21	4.3	12.2	0.15	3.7	12.1	0.11
195.75	-0.13	32.60		11.00	1.920	kout	mab97	11.3	19.6	2.03	9.8	17.6	1.52	8.1	16.4	1.04
196.00	0.50	20.20		4.60	0.480	kout	mab97	4.8	13.2	0.52	4.1	12.0	0.38	3.5	11.9	0.28
196.45	-1.68	17.70	3.00	3.80	0.363	stel	css90			0.36			0.36			0.36
196.83	-3.10	25.30	1.10	4.80	0.133	stel	css90			0.13			0.13			0.13
197.00	0.75	19.60		4.00	0.890	kout	mab97	4.2	12.6	0.98	3.6	11.5	0.72	3.1	11.5	0.53
203.00	1.00	32.40		5.70	0.200	kout	mab97	5.9	14.1	0.21	5.1	12.8	0.16	4.3	12.6	0.11
204.50	-0.50	26.80		4.00	0.190	kout	mab97	4.1	12.4	0.20	3.5	11.3	0.15	3.0	11.3	0.11
204.63	0.13	45.70		9.30	0.300	kout	mab97	9.6	17.7	0.32	8.3	15.9	0.24	7.0	15.1	0.17
205.00	0.75	33.30		5.30	0.620	kout	mab97	5.5	13.7	0.67	4.7	12.5	0.49	4.0	12.3	0.35
205.25	0.00	20.70		2.70	0.110	kout	mab97	2.9	11.2	0.13	2.4	10.3	0.09	2.1	10.4	0.07
206.00	-0.50	20.70		2.60	0.090	kout	mab97	2.8	11.1	0.10	2.4	10.2	0.08	2.0	10.3	0.05
207.50	0.25	34.40		4.90	0.230	kout	mab97	5.1	13.3	0.25	4.4	12.1	0.19	3.8	12.0	0.14
207.75	1.00	39.50		6.00	0.150	kout	mab97	6.3	14.3	0.17	5.4	13.0	0.12	4.6	12.7	0.09
208.50	0.75	39.20		5.70	0.350	kout	mab97	6.0	14.0	0.39	5.1	12.8	0.28	4.4	12.5	0.21
208.75	-1.75	51.10		8.90	0.590	kout	mab97	9.2	17.2	0.63	8.0	15.5	0.48	6.8	14.8	0.34
209.50	-1.25	24.90		2.90	0.140	kout	mab97	3.1	11.3	0.16	2.6	10.4	0.11	2.3	10.5	0.09
209.50	-1.00	44.90		6.90	0.260	kout	mab97	7.1	15.1	0.28	6.1	13.7	0.20	5.2	13.3	0.15
209.50	0.50	29.80		3.70	0.370	kout	mab97	3.9	12.1	0.41	3.3	11.0	0.29	2.8	11.1	0.21
210.00	-2.25	22.20		2.50	0.130	kout	mab97	2.7	10.9	0.15	2.3	10.0	0.11	1.9	10.2	0.08
210.00	-0.75	35.00		4.60	0.280	kout	mab97	4.8	12.9	0.30	4.1	11.7	0.22	3.5	11.7	0.16
210.13	-1.75	39.80		5.50	0.300	kout	mab97	5.7	13.7	0.32	4.9	12.5	0.24	4.2	12.4	0.17
210.13	-1.50	37.80		5.10	0.180	kout	mab97	5.3	13.4	0.19	4.6	12.2	0.15	3.9	12.1	0.11
210.38	0.00	35.90		4.70	1.010	kout	mab97	4.9	12.9	1.10	4.2	11.8	0.81	3.6	11.7	0.59
211.04	1.18	54.29		8.88	0.140	kout	bw94	9.1	17.0	0.15	7.9	15.3	0.11	6.6	14.6	0.08
211.25	-1.75	42.20		5.80	0.350	kout	mab97	6.0	14.0	0.37	5.2	12.7	0.28	4.4	12.5	0.20
211.25	-1.00	43.80		6.10	0.180	kout	mab97	6.3	14.3	0.19	5.5	13.0	0.15	4.7	12.7	0.11
211.25	-0.50	21.70		2.40	0.090	kout	mab97	2.5	10.7	0.10	2.1	9.9	0.07	1.8	10.1	0.05
211.50	1.00	45.40		6.40	1.190	kout	mab97	6.6	14.6	1.27	5.7	13.2	0.94	4.9	12.9	0.70
212.25	-1.00	27.50		3.10	0.150	kout	mab97	3.3	11.4	0.17	2.8	10.4	0.12	2.4	10.6	0.09
212.25	-1.00	44.30		6.00	1.110	kout	mab97	6.2	14.1	1.19	5.3	12.8	0.87	4.6	12.6	0.65
213.00	1.25	42.90		5.50	1.040	kout	mab97	5.8	13.7	1.16	5.0	12.5	0.86	4.2	12.3	0.61
213.25	-2.00	37.10		4.50	0.210	kout	mab97	4.7	12.7	0.23	4.0	11.6	0.17	3.5	11.6	0.13
214.00	0.75	44.10		5.60	0.940	kout	mab97	5.8	13.7	1.01	5.0	12.5	0.75	4.3	12.3	0.55
214.50	-1.75	27.60		2.90	0.390	kout	mab97	3.1	11.2	0.45	2.6	10.3	0.31	2.2	10.4	0.22
214.50	1.00	46.00		5.90	1.130	kout	mab97	6.1	13.9	1.21	5.2	12.7	0.88	4.5	12.4	0.66
215.00	1.00	47.60		6.10	2.480	kout	mab97	6.3	14.1	2.65	5.4	12.8	1.94	4.6	12.6	1.41
215.25	-0.25	29.20		3.10	0.400	kout	mab97	3.3	11.3	0.45	2.8	10.4	0.33	2.4	10.5	0.24
215.50	-2.25	43.40		5.20	0.100	kout	mab97	5.4	13.3	0.11	4.7	12.1	0.08	4.1	12.0	0.06
215.50	0.25	48.70		6.20	0.520	kout	mab97	6.4	14.2	0.55	5.5	12.9	0.41	4.7	12.7	0.30
215.75	1.25	50.70		6.50	0.720	kout	mab97	6.8	14.5	0.79	5.9	13.2	0.59	5.0	12.9	0.43
216.00	0.50	45.70		5.50	0.180	kout	mab97	5.8	13.6	0.20	5.0	12.4	0.15	4.2	12.2	0.10
216.25	0.00	28.20		2.90	0.100	kout	mab97	3.1	11.1	0.11	2.6	10.2	0.08	2.2	10.3	0.06
216.50	0.50	46.70		5.70	0.130	kout	mab97	5.9	13.7	0.14	5.1	12.4	0.10	4.3	12.3	0.07
216.50	1.25	48.00		5.90	0.580	kout	mab97	6.1	13.9	0.62	5.3	12.6	0.47	4.5	12.4	0.34
216.50	-2.50	22.80		2.14	12.303	kout	sod91	2.4	10.5	15.47	2.0	9.7	10.75	1.7	9.9	7.76
216.75	-1.00	31.30		3.30	0.140	kout	mab97	3.4	11.4	0.15	2.9	10.5	0.11	2.5	10.6	0.08
217.00	0.50	50.90		6.30	1.340	kout	mab97	6.6	14.3	1.47	5.7	13.0	1.10	4.8	12.7	0.78
217.13	-0.13	53.80		6.90	0.220	kout	mab97	7.1	14.8	0.23	6.2	13.4	0.18	5.3	13.1	0.13
217.25	0.00	26.70		2.70	0.700	kout	mab97	2.8	10.9	0.75	2.4	10.0	0.55	2.0	10.2	0.38

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
($^{\circ}$)	($^{\circ}$)	km s^{-1}	$10^3 \text{ K km s}^{-1} \text{ pc}^2$	kpc	$10^5 M_{\odot}$			kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$	kpc	kpc	$10^5 M_{\odot}$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
217.25	0.00	27.70		2.80	0.360	kout	mab97	3.0	11.0	0.41	2.5	10.1	0.29	2.1	10.3	0.20
217.38	-1.38	50.50		6.20	0.280	kout	mab97	6.4	14.2	0.30	5.5	12.9	0.22	4.8	12.6	0.17
217.38	0.25	50.50		6.20	1.550	kout	mab97	6.4	14.1	1.65	5.5	12.9	1.22	4.8	12.6	0.93
218.00	-0.25	27.70		2.70	0.630	kout	mab97	2.9	11.0	0.73	2.5	10.1	0.54	2.1	10.2	0.38
218.00	0.25	22.80		2.20	0.200	kout	mab97	2.4	10.5	0.24	2.0	9.6	0.17	1.6	9.8	0.11
218.25	-2.00	26.30		2.60	0.360	kout	mab97	2.7	10.8	0.39	2.3	9.9	0.28	2.0	10.1	0.21
218.25	-2.00	32.30		3.30	0.720	kout	mab97	3.5	11.4	0.81	3.0	10.5	0.60	2.5	10.6	0.41
218.75	-0.50	56.10		7.00	0.170	kout	mab97	7.3	14.9	0.18	6.3	13.5	0.14	5.4	13.1	0.10
218.75	-0.50	59.60		7.80	0.220	kout	mab97	8.0	15.6	0.23	6.9	14.1	0.17	5.9	13.6	0.13
219.00	-1.88	31.30		3.10	0.290	kout	mab97	3.3	11.3	0.33	2.8	10.3	0.24	2.4	10.5	0.17
219.75	-2.00	30.90		3.00	0.210	kout	mab97	3.2	11.2	0.24	2.7	10.2	0.17	2.3	10.4	0.12
220.25	-2.00	33.80		3.40	0.310	kout	mab97	3.6	11.5	0.35	3.0	10.5	0.24	2.6	10.6	0.18
221.75	0.25	63.80		8.00	0.200	kout	mab97	8.2	15.6	0.21	7.2	14.2	0.16	6.1	13.7	0.12
222.50	-0.25	51.30		5.60	0.160	kout	mab97	5.9	13.4	0.18	5.1	12.2	0.13	4.3	12.1	0.09
222.75	-2.00	39.70		4.00	0.290	kout	mab97	4.2	11.9	0.32	3.6	10.9	0.23	3.1	11.0	0.17
223.75	-2.00	63.20		7.50	0.190	kout	mab97	7.8	15.1	0.21	6.7	13.7	0.15	5.8	13.3	0.11
224.00	-2.00	17.60		1.47	4.677	kout	sod91	1.7	9.8	6.26	1.4	9.0	4.24	1.1	9.3	2.62
228.00	-1.00	36.50		3.40	0.110	kout	mab97	3.6	11.2	0.12	3.1	10.3	0.09	2.6	10.4	0.06
229.75	-2.50	41.30		3.90	0.120	kout	mab97	4.1	11.6	0.13	3.5	10.6	0.10	3.0	10.7	0.07
230.00	-1.00	39.20		3.70	0.230	kout	mab97	3.9	11.4	0.26	3.3	10.4	0.18	2.8	10.5	0.13
230.25	-2.75	42.00		4.00	0.380	kout	mab97	4.2	11.6	0.42	3.6	10.6	0.31	3.1	10.7	0.23
231.13	0.00	43.40		4.10	0.210	kout	mab97	4.3	11.7	0.23	3.7	10.7	0.17	3.2	10.8	0.13
231.50	-1.00	43.10		4.10	0.910	kout	mab97	4.3	11.6	1.00	3.7	10.7	0.74	3.2	10.7	0.55
232.00	0.13	57.20		5.80	0.360	kout	mab97	6.0	13.1	0.39	5.2	11.9	0.29	4.5	11.8	0.22
232.00	-2.50	42.30		3.81	14.454	kout	sod91	4.2	11.6	17.56	3.6	10.6	12.90	3.1	10.7	9.57
232.25	-1.00	44.60		4.20	0.370	kout	mab97	4.4	11.7	0.41	3.8	10.8	0.30	3.3	10.8	0.23
232.75	-3.25	40.60		3.80	0.790	kout	mab97	4.0	11.4	0.88	3.4	10.4	0.63	2.9	10.5	0.46
233.00	-1.00	47.00		4.50	0.410	kout	mab97	4.7	11.9	0.45	4.0	10.9	0.32	3.5	11.0	0.25
233.00	-0.75	45.60		4.30	1.430	kout	mab97	4.5	11.8	1.57	3.9	10.8	1.18	3.4	10.9	0.89
233.00	0.00	18.90		1.57	1.549	kout	sod91	1.8	9.7	2.04	1.5	9.0	1.41	1.1	9.2	0.76
233.25	-1.75	51.60		5.00	0.160	kout	mab97	5.3	12.4	0.18	4.5	11.3	0.13	3.9	11.3	0.10
234.00	-0.25	43.70		4.10	1.930	kout	mab97	4.3	11.6	2.12	3.7	10.6	1.57	3.2	10.7	1.18
234.25	-0.88	76.30		8.60	0.930	kout	mab97	8.8	15.4	0.97	7.7	14.0	0.75	6.7	13.5	0.56
234.50	-0.25	43.40		4.10	1.540	kout	mab97	4.3	11.5	1.69	3.7	10.6	1.25	3.2	10.6	0.94
235.00	0.50	47.90		4.60	0.160	kout	mab97	4.8	11.9	0.17	4.1	10.9	0.13	3.6	10.9	0.10
235.38	-1.75	80.80		9.30	0.950	kout	mab97	9.5	16.0	0.99	8.3	14.4	0.76	7.2	13.9	0.57
235.50	0.75	48.30		4.60	0.160	kout	mab97	4.8	11.9	0.17	4.2	10.9	0.13	3.6	10.9	0.10
235.75	-1.50	52.60		5.10	0.190	kout	mab97	5.3	12.3	0.21	4.6	11.3	0.15	4.0	11.3	0.12
236.38	-1.75	77.60		8.60	1.230	kout	mab97	8.9	15.3	1.32	7.7	13.9	0.99	6.7	13.4	0.75
236.38	-1.50	29.20		2.60	0.200	kout	mab97	2.8	10.3	0.23	2.4	9.5	0.17	2.0	9.7	0.12
236.75	-0.50	56.60		5.60	0.130	kout	mab97	5.8	12.7	0.14	5.0	11.5	0.10	4.4	11.5	0.08
237.00	-2.00	23.20		2.10	0.190	kout	mab97	2.3	9.9	0.23	1.9	9.1	0.16	1.5	9.4	0.10
237.13	-2.38	57.10		5.60	0.260	kout	mab97	5.9	12.7	0.29	5.1	11.6	0.22	4.5	11.5	0.17
237.25	-1.25	74.40		8.00	1.050	kout	mab97	8.3	14.7	1.13	7.2	13.4	0.85	6.3	13.0	0.65
237.50	-0.25	55.90		5.50	0.180	kout	mab97	5.7	12.5	0.19	4.9	11.4	0.14	4.3	11.4	0.11
237.75	-1.00	22.40		2.00	0.260	kout	mab97	2.2	9.9	0.31	1.8	9.1	0.21	1.4	9.3	0.13
238.38	-3.25	65.20		6.70	0.490	kout	mab97	6.9	13.5	0.52	6.0	12.3	0.39	5.3	12.1	0.31
239.13	-3.50	23.00		2.10	0.190	kout	mab97	2.3	9.9	0.23	1.9	9.1	0.16	1.5	9.4	0.10
239.13	-1.88	83.00		9.40	2.460	kout	mab97	9.6	15.8	2.57	8.4	14.3	1.96	7.3	13.8	1.48
239.50	-1.88	79.90		8.80	0.410	kout	mab97	9.1	15.3	0.44	7.9	13.8	0.33	6.9	13.4	0.25
240.25	-1.75	23.90		2.20	0.180	kout	mab97	2.4	9.9	0.21	2.0	9.1	0.15	1.6	9.4	0.10
240.25	0.00	68.10		7.00	0.340	kout	mab97	7.3	13.7	0.37	6.3	12.4	0.28	5.5	12.2	0.21
240.25	0.50	68.70		7.10	0.230	kout	mab97	7.4	13.7	0.25	6.4	12.5	0.19	5.6	12.3	0.14
241.00	-1.25	66.10		6.80	2.760	kout	mab97	7.0	13.4	2.92	6.1	12.2	2.22	5.3	12.0	1.68
241.75	-0.63	68.40		7.10	3.350	kout	mab97	7.3	13.6	3.54	6.4	12.4	2.72	5.6	12.2	2.08
242.00	-0.88	66.00		6.70	1.720	kout	mab97	7.0	13.3	1.88	6.1	12.1	1.43	5.3	12.0	1.08
242.25	-2.75	21.50		2.00	0.190	kout	mab97	2.2	9.7	0.23	1.8	9.0	0.15	1.4	9.3	0.09
242.25	-2.75	26.20		2.40	0.320	kout	mab97	2.7	10.0	0.41	2.2	9.2	0.27	1.8	9.5	0.18
242.25	0.13	69.80		7.20	1.720	kout	mab97	7.5	13.7	1.87	6.5	12.5	1.40	5.7	12.3	1.08
242.63	0.13	71.90		7.50	1.210	kout	mab97	7.8	13.9	1.31	6.8	12.7	0.99	5.9	12.4	0.75
242.88	-0.50	64.30		6.50	1.580	kout	mab97	6.8	13.1	1.73	5.9	11.9	1.30	5.2	11.8	1.01
242.88	0.00	55.80		5.50	0.500	kout	mab97	5.7	12.2	0.54	5.0	11.2	0.41	4.4	11.2	0.32
243.00	-3.00	22.20		2.10	0.170	kout	mab97	2.3	9.8	0.20	1.9	9.0	0.14	1.5	9.3	0.09
243.25	-0.75	66.90		6.90	0.760	kout	mab97	7.1	13.3	0.80	6.2	12.1	0.61	5.4	12.0	0.47
244.25	-2.50	70.40		7.30	0.130	kout	mab97	7.6	13.6	0.14	6.6	12.4	0.11	5.8	12.2	0.08

Table A.2. continued.

l	b	V_{lsr}	L_{CO}	D	M_{GMCs}	Mark	Ref.	$D_{8.5}$	$R_{8.5}$	$M_{8.5}$	$D_{8.0}$	$R_{8.0}$	$M_{8.0}$	$D_{8.4}$	$R_{8.4}$	$M_{8.4}$
(°)	(°)	km s ⁻¹	10 ³ K km s ⁻¹ pc ²	kpc	10 ⁵ M _⊙			kpc	kpc	10 ⁵ M _⊙	kpc	kpc	10 ⁵ M _⊙	kpc	kpc	10 ⁵ M _⊙
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
244.50	-2.00	92.60		10.80	0.750	kout	mab97	11.1	16.6	0.79	9.7	15.0	0.61	8.4	14.3	0.45
244.75	-0.25	62.50		6.30	0.190	kout	mab97	6.6	12.8	0.21	5.7	11.7	0.16	5.0	11.6	0.12
246.75	-0.50	21.40		2.10	0.620	kout	mab97	2.4	9.7	0.81	1.9	8.9	0.51	1.5	9.2	0.32
247.75	-0.75	29.90		3.00	0.090	kout	mab97	3.2	10.2	0.10	2.7	9.4	0.07	2.3	9.6	0.05
248.00	0.50	27.00		2.70	0.230	kout	mab97	3.0	10.0	0.28	2.5	9.2	0.20	2.0	9.4	0.13
249.50	-3.88	89.90		10.20	0.480	kout	mab97	10.6	15.7	0.52	9.3	14.2	0.40	8.2	13.7	0.31
249.88	-3.13	98.00		11.60	1.500	kout	mab97	12.0	16.9	1.61	10.5	15.2	1.23	9.2	14.5	0.94
250.38	-1.00	66.40		7.00	0.200	kout	mab97	7.3	12.9	0.22	6.4	11.8	0.17	5.7	11.7	0.13
250.63	-3.63	89.60		10.20	0.320	kout	mab97	10.5	15.6	0.34	9.2	14.1	0.26	8.2	13.6	0.21
251.25	-2.00	54.80		5.70	0.260	kout	mab97	6.0	11.9	0.29	5.2	10.9	0.22	4.6	10.9	0.17
252.00	-3.50	8.50		1.00	0.093	kout	sod91	1.4	9.0	0.18	0.9	8.3	0.08	0.5	8.7	0.02
252.00	-3.50	15.00		1.68	0.891	kout	sod91	2.0	9.3	1.26	1.6	8.6	0.81	1.1	8.9	0.38
252.08	-4.24	95.14		11.22	0.100	kout	bw94	11.5	16.3	0.11	10.1	14.7	0.08	8.9	14.1	0.06
253.00	-2.93	99.60	0.91	11.50	0.111	kout	nomf05	12.3	16.8	0.13	10.8	15.2	0.10	9.5	14.5	0.08
253.00	-1.50	5.90		0.74	0.263	kout	sod91	1.1	8.9	0.58	0.7	8.2	0.24	0.2	8.6	0.02
253.23	-2.73	98.90	0.99	11.30	0.121	kout	nomf05	12.1	16.7	0.14	10.7	15.1	0.11	9.4	14.4	0.08
253.53	-3.17	107.20	0.94	12.80	0.114	kout	nomf05	13.7	18.1	0.13	12.1	16.3	0.10	10.6	15.3	0.08
253.63	0.00	34.70		3.80	2.640	kout	mab97	4.1	10.4	3.07	3.5	9.6	2.24	3.0	9.8	1.65
253.75	0.00	34.60		3.80	1.690	kout	mab97	4.1	10.4	1.97	3.5	9.6	1.43	3.0	9.8	1.05
254.25	-2.25	36.10		4.00	0.350	kout	mab97	4.3	10.5	0.40	3.6	9.6	0.28	3.2	9.8	0.22
254.25	-1.00	76.60		8.50	0.330	kout	mab97	8.8	13.8	0.35	7.7	12.5	0.27	6.9	12.3	0.22
255.25	-1.00	80.10		9.00	1.180	kout	mab97	9.3	14.1	1.26	8.2	12.8	0.98	7.3	12.6	0.78
255.38	-0.75	86.00		9.90	1.440	kout	mab97	10.1	14.8	1.50	8.9	13.4	1.16	8.0	13.0	0.94
255.47	-3.93	108.70	2.85	13.20	0.348	kout	nomf05	14.1	18.2	0.40	12.4	16.4	0.31	10.9	15.4	0.24
255.75	-1.00	35.70		4.10	0.150	kout	mab97	4.3	10.4	0.16	3.7	9.6	0.12	3.2	9.8	0.09
256.00	-2.50	9.80		1.31	1.738	kout	sod91	1.7	9.1	2.93	1.2	8.4	1.46	0.7	8.7	0.50
256.12	-1.50	87.50		10.10	0.950	kout	mab97	10.4	14.9	1.01	9.2	13.5	0.79	8.2	13.2	0.63
256.72	-2.00	44.40		5.00	0.280	kout	mab97	5.3	11.0	0.31	4.6	10.1	0.24	4.1	10.2	0.19
257.00	-0.50	53.00		6.00	0.810	kout	mab97	6.2	11.6	0.86	5.4	10.6	0.66	4.8	10.7	0.52
257.37	-1.10	90.90	1.55	10.30	0.190	kout	nomf05	11.0	15.3	0.22	9.7	13.9	0.17	8.7	13.4	0.14
257.50	-2.38	93.10		11.10	1.100	kout	mab97	11.4	15.6	1.16	10.0	14.1	0.89	9.0	13.6	0.72
257.50	-2.00	41.50		4.80	0.380	kout	mab97	5.1	10.8	0.43	4.4	9.9	0.32	3.9	10.1	0.25
257.50	-0.25	55.50		6.30	0.190	kout	mab97	6.5	11.8	0.20	5.7	10.8	0.16	5.1	10.8	0.12
257.53	-2.33	94.80	6.84	10.90	0.836	kout	nomf05	11.6	15.8	0.95	10.3	14.3	0.75	9.2	13.8	0.60
257.57	-2.07	91.30	5.02	10.40	0.613	kout	nomf05	11.1	15.4	0.70	9.8	13.9	0.54	8.8	13.4	0.44
257.83	-2.63	91.10	4.57	10.40	0.558	kout	nomf05	11.1	15.3	0.64	9.8	13.9	0.50	8.8	13.4	0.40
258.40	-2.93	100.90	1.91	11.90	0.233	kout	nomf05	12.7	16.7	0.27	11.2	15.0	0.21	10.0	14.4	0.16
258.50	-1.50	67.20		7.70	0.530	kout	mab97	7.9	12.7	0.56	7.0	11.6	0.44	6.3	11.6	0.35
258.50	-1.00	81.20		9.40	0.960	kout	mab97	9.7	14.1	1.02	8.6	12.8	0.80	7.7	12.6	0.64
258.60	-3.87	105.10	0.87	12.70	0.107	kout	nomf05	13.5	17.3	0.12	11.9	15.6	0.09	10.6	14.8	0.07
258.93	-1.03	90.60	0.81	10.40	0.099	kout	nomf05	11.1	15.2	0.11	9.8	13.8	0.09	8.8	13.3	0.07
259.00	-1.75	58.50		6.70	1.290	kout	mab97	7.0	12.0	1.41	6.1	11.0	1.07	5.5	11.0	0.87
259.25	-2.50	54.50		6.30	1.160	kout	mab97	6.6	11.7	1.27	5.8	10.7	0.98	5.2	10.8	0.79
259.37	-1.90	95.80	1.28	11.20	0.156	kout	nomf05	11.9	15.9	0.18	10.5	14.4	0.14	9.4	13.8	0.11
259.75	-1.25	62.90		7.30	0.840	kout	mab97	7.6	12.3	0.91	6.6	11.3	0.69	6.0	11.2	0.57
259.83	-1.57	94.20	1.00	11.00	0.122	kout	nomf05	11.7	15.6	0.14	10.3	14.2	0.11	9.3	13.6	0.09
260.00	0.00	60.70		7.10	0.680	kout	mab97	7.3	12.2	0.72	6.4	11.1	0.55	5.8	11.1	0.45
260.07	-1.53	91.70	2.05	10.70	0.251	kout	nomf05	11.3	15.3	0.28	10.0	13.9	0.22	9.0	13.4	0.18
260.50	-0.75	57.20		6.70	0.860	kout	mab97	7.0	11.9	0.94	6.1	10.9	0.71	5.6	10.9	0.60
260.63	0.38	55.30		6.50	0.950	kout	mab97	6.8	11.7	1.04	6.0	10.7	0.81	5.4	10.8	0.66
260.75	-2.50	64.10		7.50	0.390	kout	mab97	7.8	12.4	0.42	6.9	11.4	0.33	6.2	11.3	0.27
261.00	-0.75	70.00		8.30	1.510	kout	mab97	8.5	12.9	1.58	7.5	11.8	1.23	6.8	11.7	1.01
261.00	-2.50	13.70		2.10	2.951	kout	sod91	2.5	9.2	4.18	2.0	8.5	2.68	1.4	8.8	1.31
261.27	-5.03	102.20	2.03	12.40	0.248	kout	nomf05	13.2	16.8	0.28	11.7	15.1	0.22	10.4	14.4	0.17
261.40	-2.00	102.90	1.94	12.50	0.237	kout	nomf05	13.3	16.8	0.27	11.8	15.2	0.21	10.5	14.5	0.17
261.50	-1.25	55.40		6.60	0.220	kout	mab97	6.9	11.7	0.24	6.1	10.7	0.19	5.5	10.8	0.15
261.80	-3.03	103.00	1.20	12.50	0.147	kout	nomf05	13.4	16.8	0.17	11.8	15.2	0.13	10.6	14.5	0.11
261.83	-1.47	101.40	1.12	12.30	0.137	kout	nomf05	13.1	16.6	0.16	11.6	15.0	0.12	10.3	14.3	0.10
262.17	-2.20	98.60	0.83	11.90	0.102	kout	nomf05	12.6	16.2	0.11	11.2	14.6	0.09	10.0	14.0	0.07
262.25	-2.00	59.70		7.20	0.780	kout	mab97	7.5	12.0	0.85	6.6	11.0	0.66	6.0	11.0	0.54
262.75	-0.50	59.90		7.30	0.490	kout	mab97	7.5	12.1	0.52	6.6	11.0	0.40	6.0	11.0	0.33
263.00	-2.50	62.10		7.50	0.230	kout	mab97	7.8	12.2	0.25	6.9	11.2	0.19	6.3	11.2	0.16
263.60	-4.00	111.00	2.51	14.10	0.307	kout	nomf05	15.1	18.1	0.35	13.3	16.3	0.27	11.8	15.3	0.22
264.00	-1.50	29.40		4.20	0.800	kout	mab97	4.5	10.0	0.92	3.9	9.2	0.69	3.4	9.5	0.52

Table A.2. continued.

l (°) (1)	b (°) (2)	V_{lsr} km s^{-1} (3)	L_{CO} $10^3 \text{ K km s}^{-1} \text{ pc}^2$ (4)	D kpc (5)	M_{GMCs} $10^5 M_{\odot}$ (6)	Mark (7)	Ref. (8)	$D_{8.5}$ kpc (9)	$R_{8.5}$ kpc (10)	$M_{8.5}$ $10^5 M_{\odot}$ (11)	$D_{8.0}$ kpc (12)	$R_{8.0}$ kpc (13)	$M_{8.0}$ $10^5 M_{\odot}$ (14)	$D_{8.4}$ kpc (15)	$R_{8.4}$ kpc (16)	$M_{8.4}$ $10^5 M_{\odot}$ (17)
265.00	-1.50	29.40		4.30	0.480	kout	mab97	4.6	10.0	0.55	4.0	9.2	0.42	3.5	9.5	0.32
265.00	0.00	47.10		6.20	0.150	kout	mab97	6.4	11.1	0.16	5.6	10.2	0.12	5.1	10.3	0.10
265.25	-1.25	65.90		8.30	0.360	kout	mab97	8.5	12.5	0.38	7.5	11.4	0.29	6.9	11.4	0.25
265.50	-1.50	27.00		4.10	0.150	kout	mab97	4.4	9.9	0.17	3.8	9.1	0.13	3.3	9.4	0.10
265.53	-2.00	90.80	4.20	11.10	0.513	kout	nomf05	11.8	15.1	0.58	10.5	13.6	0.46	9.5	13.2	0.38
266.50	-3.00	65.50		8.30	0.340	kout	mab97	8.6	12.5	0.37	7.7	11.4	0.29	7.0	11.4	0.24
266.50	-2.00	24.20		4.00	0.110	kout	mab97	4.3	9.7	0.13	3.6	9.0	0.09	3.2	9.2	0.07
266.75	-2.00	57.60		7.50	0.280	kout	mab97	7.8	11.8	0.30	6.9	10.8	0.24	6.3	10.9	0.20
266.75	-0.75	31.20		4.70	0.180	kout	mab97	5.0	10.1	0.20	4.4	9.3	0.16	3.9	9.5	0.12
267.00	-0.75	19.20		3.50	0.320	kout	mab97	3.8	9.5	0.38	3.2	8.8	0.27	2.7	9.0	0.19
267.25	-2.00	18.10		3.40	0.160	kout	mab97	3.7	9.4	0.19	3.1	8.7	0.13	2.6	9.0	0.09
268.50	-2.50	62.60		8.30	1.120	kout	mab97	8.6	12.2	1.20	7.6	11.2	0.94	7.0	11.2	0.80
269.00	-1.25	62.10		8.30	0.720	kout	mab97	8.6	12.2	0.77	7.6	11.1	0.60	7.0	11.1	0.51
269.00	-0.50	42.50		6.20	1.070	kout	mab97	6.5	10.8	1.18	5.7	9.9	0.90	5.2	10.1	0.75
269.00	-0.50	46.60		6.70	0.480	kout	mab97	6.9	11.1	0.51	6.1	10.1	0.40	5.6	10.3	0.34
269.25	-1.75	79.10		10.40	0.910	kout	mab97	10.7	13.7	0.96	9.5	12.5	0.76	8.7	12.3	0.64
269.88	-0.13	74.90		10.00	1.870	kout	mab97	10.2	13.3	1.95	9.1	12.1	1.55	8.4	11.9	1.32
270.90	-0.50	52.00		6.80	2.200	kout	gcbt88	7.8	11.4	2.89	6.9	10.5	2.27	6.4	10.5	1.95
279.90	-1.60	35.00		7.10	1.000	kout	gcbt88	7.6	10.4	1.15	6.8	9.5	0.92	6.4	9.7	0.81
281.40	-1.10	-5.00		3.20	22.500	stel	gcbt88			22.50			22.50			22.50
282.00	-0.80	17.00		6.10	2.700	kout	gcbt88	6.2	9.4	2.79	5.4	8.7	2.12	5.1	8.9	1.89
282.90	1.30	-19.00		2.20	0.700	ktan	gcbt88	1.9	8.3	0.52	1.8	7.8	0.47	1.9	8.2	0.52
282.90	-0.70	-5.00		3.20	2.800	kfar	gcbt88	3.4	8.4	3.16	2.3	7.8	1.45	1.9	8.3	0.99
283.80	0.00	-5.00		4.00	6.300	stel	gcbt88			6.30			6.30			6.30
284.50	-0.20	12.00		6.60	20.300	kout	gcbt88	6.2	9.2	17.91	5.4	8.5	13.59	5.1	8.8	12.12
285.30	0.00	0.00		5.30	4.500	kfar	gcbt88	4.9	8.6	3.85	4.2	8.0	2.83	3.7	8.3	2.19
286.00	0.00	-20.20		2.34	19.498	kout	sod91							2.3	8.2	18.84
286.40	-0.30	14.00		7.50	8.300	kout	gcbt88	6.8	9.3	6.82	6.1	8.6	5.49	5.8	8.8	4.96
287.50	-0.50	-19.00		2.70	6.700	stel	gcbt88			6.70			6.70			6.70
287.53	0.97	-4.20	3.34	2.60	0.117	stel	dkm+08			0.12			0.12			0.12
287.60	8.00	-27.80	3.29	2.60	0.115	stel	dkm+08			0.12			0.12			0.12
288.60	1.50	-22.00		3.20	3.500	ktan	gcbt88	2.7	8.1	2.49	2.6	7.6	2.31	2.7	8.0	2.49
288.80	1.07	-16.90	56.05	2.60	1.960	stel	dkm+08			1.96			1.96			1.96
289.00	-0.50	20.20		7.67	85.114	kout	sod91	8.0	9.6	92.60	7.2	8.9	75.00	7.0	9.1	70.89
289.30	-0.60	22.00		7.90	31.200	stel	gcbt88			31.20			31.20			31.20
290.20	-0.20	-1.00		6.80	2.700	kfar	gcbt88	6.1	8.6	2.17	5.4	8.0	1.70	5.1	8.3	1.52
290.60	-0.20	15.00		8.70	4.300	kout	gcbt88	7.9	9.3	3.55	7.1	8.6	2.86	6.9	8.9	2.70
291.50	-1.50	-25.40		3.12	36.308	kout	sod91							3.1	7.9	35.84
291.60	-0.40	15.00		7.20	4.100	stel	gcbt88			4.10			4.10			4.10
291.60	-0.50	29.00		10.30	12.500	kout	gcbt88	9.4	10.1	10.41	8.6	9.3	8.71	8.4	9.5	8.31
292.60	-0.30	4.00		8.10	12.000	kfar	gcbt88	7.3	8.8	9.75	6.5	8.2	7.73	6.4	8.4	7.49
293.30	-1.40	-25.00		2.40	7.100	stel	gcbt88			7.10			7.10			7.10
294.00	-0.90	32.00		11.30	12.200	kout	gcbt88	10.3	10.3	10.14	9.3	9.5	8.26	9.2	9.7	8.09
294.40	-0.70	-3.00		8.00	12.200	kfar	gcbt88	7.0	8.5	9.34	6.3	7.9	7.57	6.2	8.2	7.33
295.10	-0.80	26.00		11.00	4.500	kout	gcbt88	10.0	10.0	3.72	9.1	9.2	3.08	9.0	9.4	3.01
297.40	-0.50	22.00		11.20	32.100	kout	gcbt88	10.1	9.8	26.10	9.2	9.0	21.66	9.2	9.2	21.66
297.50	-0.50	25.40		10.14	218.776	kout	sod91	10.5	10.0	234.59	9.5	9.2	192.03	9.5	9.4	192.03
298.60	0.10	-35.00		4.70	26.500	ktan	gcbt88	4.1	7.5	20.17	3.8	7.0	17.32	4.0	7.4	19.19
298.80	-0.20	25.00		12.00	30.800	kout	gcbt88	10.7	10.0	24.49	9.8	9.2	20.54	9.8	9.4	20.54
299.40	-0.10	-6.00		9.40	4.600	kfar	gcbt88	8.0	8.4	3.33	7.3	7.8	2.77	7.3	8.1	2.77
299.50	-0.50	-39.70		4.19	57.544	kout	sod91							4.1	7.4	55.10
300.30	-0.20	31.00		12.90	7.000	kout	gcbt88	11.6	10.4	5.66	10.6	9.6	4.73	10.6	9.7	4.73
300.60	-0.20	10.00		11.10	4.200	kout	gcbt88	9.8	9.1	3.27	9.0	8.4	2.76	9.0	8.7	2.76
301.80	0.00	24.00		12.70	4.200	kout	gcbt88	11.3	10.0	3.33	10.4	9.2	2.82	10.4	9.3	2.82
302.30	-0.70	32.00		13.60	29.400	kout	gcbt88	12.2	10.5	23.66	11.2	9.7	19.94	11.2	9.8	19.94
303.90	-0.40	29.00		13.70	46.200	kout	gcbt88	12.3	10.3	37.24	11.3	9.5	31.43	11.3	9.6	31.43
306.90	-0.50	25.00		14.20	5.600	kout	gcbt88	12.6	10.1	4.41	11.6	9.3	3.74	11.7	9.5	3.80
308.00	-0.70	32.00		15.10	21.000	kout	gcbt88	13.5	10.7	16.79	12.4	9.8	14.16	12.5	9.9	14.39

Table A.2. continued.

l (°) (1)	b (°) (2)	V_{lsr} km s^{-1} (3)	L_{CO} $10^3 \text{ K km s}^{-1} \text{ pc}^2$ (4)	D kpc (5)	M_{GMCs} $10^5 M_{\odot}$ (6)	Mark (7)	Ref. (8)	$D_{8.5}$ kpc (9)	$R_{8.5}$ kpc (10)	$M_{8.5}$ $10^5 M_{\odot}$ (11)	$D_{8.0}$ kpc (12)	$R_{8.0}$ kpc (13)	$M_{8.0}$ $10^5 M_{\odot}$ (14)	$D_{8.4}$ kpc (15)	$R_{8.4}$ kpc (16)	$M_{8.4}$ $10^5 M_{\odot}$ (17)
311.30	-0.30	27.00		15.50	109.200	kout	gcbt88	13.8	10.4	86.56	12.7	9.6	73.31	12.8	9.6	74.47
313.20	-0.30	42.00		17.60	18.200	kout	gcbt88	15.9	11.8	14.85	14.6	10.8	12.52	14.6	10.7	12.52
314.00	-0.10	28.00		16.40	4.200	kout	gcbt88	14.5	10.6	3.28	13.4	9.7	2.80	13.5	9.8	2.85
315.30	-0.30	14.00		15.40	11.200	kout	gcbt88	13.5	9.5	8.61	12.4	8.8	7.26	12.7	8.9	7.62
318.00	-0.30	30.00		17.60	2.800	kout	gcbt88	15.7	10.9	2.23	14.4	10.0	1.87	14.6	10.0	1.93
320.50	-0.50	26.00		17.80	12.600	kout	gcbt88	15.8	10.7	9.93	14.6	9.8	8.48	14.8	9.8	8.71
325.30	-0.10	28.00		19.30	19.600	kout	gcbt88	17.1	11.2	15.39	15.8	10.3	13.14	16.0	10.2	13.47
328.50	-0.10	30.00		20.40	5.600	kout	gcbt88	18.2	11.8	4.46	16.8	10.8	3.80	17.0	10.7	3.89
335.50	-0.50	27.00		22.00	0.600	kout	gcbt88	19.7	12.4	0.48	18.1	11.4	0.41	18.3	11.1	0.42

References: bw94: [Brand & Wouterloot \(1994\)](#); css90: [Carpenter et al. \(1990\)](#); dect86: [Dame et al. \(1986\)](#); dbt90: [Digel et al. \(1990\)](#); dgt94: [Digel et al. \(1994\)](#); dlp+96: [Digel et al. \(1996\)](#); dkm+08: [Dawson et al. \(2008\)](#); gcbt88: [Grabelsky et al. \(1988\)](#); hcs01: [Heyer et al. \(2001\)](#); mk88: [Mead & Kutner \(1988\)](#); mab97: [May et al. \(1997\)](#); nomf05: [Nakagawa et al. \(2005\)](#); sod91: [Sodroski \(1991\)](#); srby87: [Solomon et al. \(1987\)](#); tllw07: [Tian et al. \(2007\)](#).