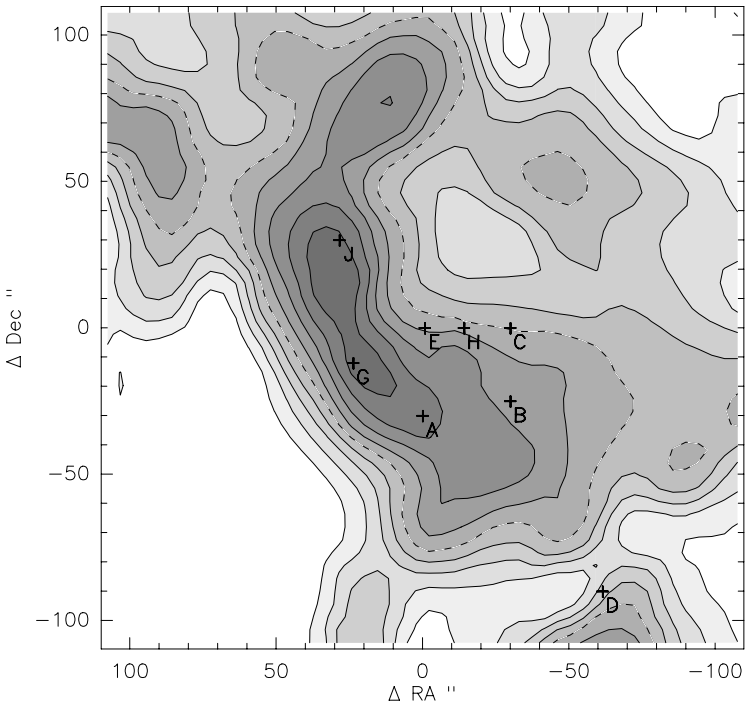
Appendix D

Edge Cloud 2 observations at the ARO 12m telescope Nov 2002 and Feb 2003

Figure D.1: ^{12}CO (2–1) map of Edge Cloud 2 showing observed positions A and H:
A. α_{1950} = 02:44:52.6, δ = 58:16:00.0, $v_{\rm rad}$ = −103.70 km s^{-1} (HCO+PKEDGE2).
H. α_{1950} = 02:44:50.8, δ = 58:16:30.0, $v_{\rm rad}$ = −103.70 km s^{-1} (EDGE2_CEN).



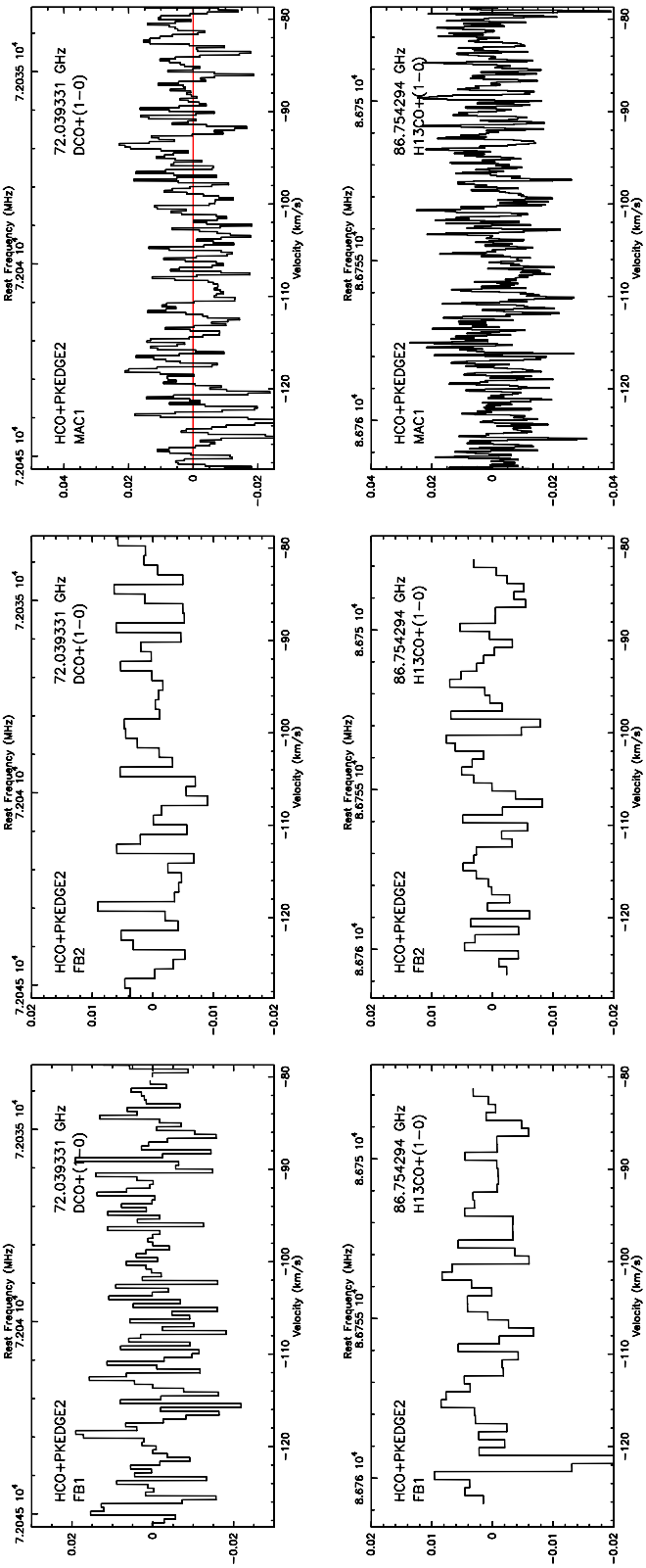


Figure D.2: EC2 position A: DCO^+ and $H^{13}CO^+$ spectra observed at the ARO 12m Nov 2002 and Feb 2003 (HCO+PKEDGE2: α_{1950} = 02:44:52.6, δ = 58:16:00.0, $v_{\rm rad}$ = −103.70 km s^{-1}).

Table D.1: EC2 position A: DCO^+ and $H^{13}CO^+$ spectra observed at the ARO Nov 2002 and Feb 2003.
Line spectra summary for Fig. D.2 (where • = $I > 3\sigma$ and ∘ = $I > 2\sigma$).

I	Source	Line	Trans.	Frequency (GHz)	Position (km s^{-1})	Width (km s^{-1})	Area (K km s^{-1})	T_R^* (K)	rms (K)	Resol. (km s^{-1})	Time (min)	UT	LST	T_{sys} (K)	Filter
	HCO+PKEDGE2	DCO^+	1–0	72.039331	—	—	—	—	0.009	0.416	408	8:36	10:02	279	FB1
	HCO+PKEDGE2	DCO^+	1–0	72.039331	–99.75 ± 0.91	2.01 ± 1.45	0.01 ± 0.01	0.006	0.004	1.040	546	8:36	10:02	273	FB2
	HCO+PKEDGE2	DCO^+	1–0	72.039331	–77.24 ± 0.10	0.92 ± 0.18	0.03 ± 0.01	0.034	0.011	0.203	538	8:36	10:02	287	MAC1
	HCO+PKEDGE2	$H^{13}CO^+$	1–0	86.754294	–101.37 ± 0.67	1.45 ± 1.05	0.01 ± 0.01	0.010	0.006	0.864	504	8:06	9:36	198	FB1
	HCO+PKEDGE2	$H^{13}CO^+$	1–0	86.754294	–102.62 ± 1.01	3.61 ± 1.24	0.02 ± 0.01	0.005	0.004	0.864	528	8:06	9:36	239	FB2
	HCO+PKEDGE2	$H^{13}CO^+$	1–0	86.754294	—	—	—	—	0.011	0.084	539	8:06	9:36	178	MAC1

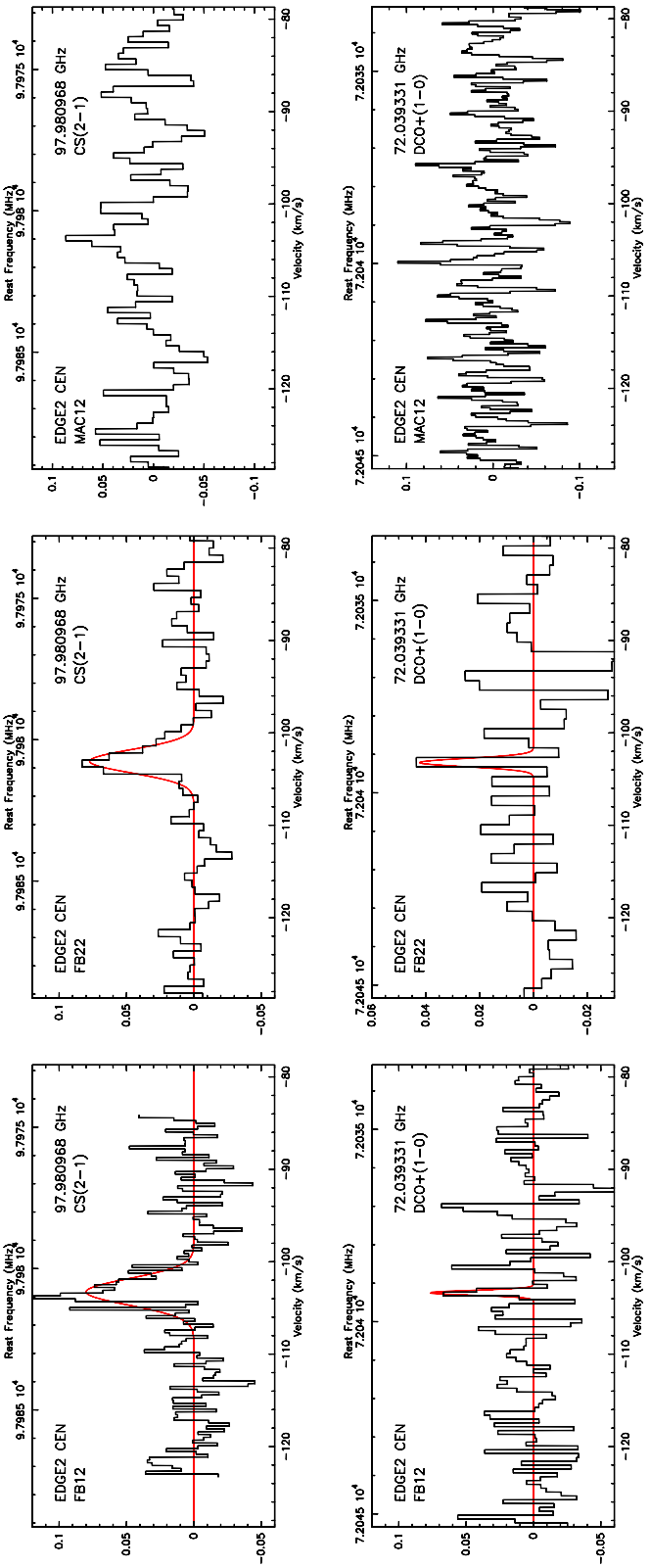


Figure D.3: EC2 position H: CS and DCO^+ spectra observed at the ARO 12m Nov 2002 and Feb 2003 (EDGE2_CEN: α_{1950} = 02:44:50.8, δ = 58:16:30.0, $v_{\rm rad}$ = −103.70 km s^{-1}).

Table D.2: EC2 position H: CS and DCO^+ spectra observed at the ARO Nov 2002 and Feb 2003.
Line spectra summary for Fig. D.3 (where • = $I > 3\sigma$ and ◦ = $I > 2\sigma$).

I	Source	Line	Trans.	Frequency (GHz)	Position (km s^{-1})	Width (km s^{-1})	Area (K km s^{-1})	T_R^* (K)	rms (K)	Resol. (km s^{-1})	Time (min)	UT	LST	T_{sys} (K)	Filter
•	EDGE2_CEN	CS	2–1	97.980968	–103.26 ± 0.16	3.37 ± 0.42	0.29 ± 0.03	0.080	0.018	0.306	42	4:41	23:59	189	FB12
•	EDGE2_CEN	CS	2–1	97.980968	–103.07 ± 0.18	2.94 ± 0.49	0.24 ± 0.03	0.077	0.012	0.765	42	4:41	23:59	183	FB22
◦	EDGE2_CEN	CS	2–1	97.980968	–103.69 ± 0.61	4.07 ± 1.90	0.25 ± 0.08	0.057	0.029	0.598	17	4:41	23:59	288	MAC12
•	EDGE2_CEN	DCO^+	1–0	72.039331	–103.36 ± 0.12	0.59 ± 0.42	0.05 ± 0.02	0.078	0.023	0.416	42	1:18	2:43	225	FB12
•	EDGE2_CEN	DCO^+	1–0	72.039331	–103.21 ± 0.29	1.04 ± 0.24	0.05 ± 0.01	0.042	0.013	1.040	42	1:18	2:43	222	FB22
	EDGE2_CEN	DCO^+	1–0	72.039331	—	—	—	—	0.036	0.203	40	1:18	2:43	259	MAC12