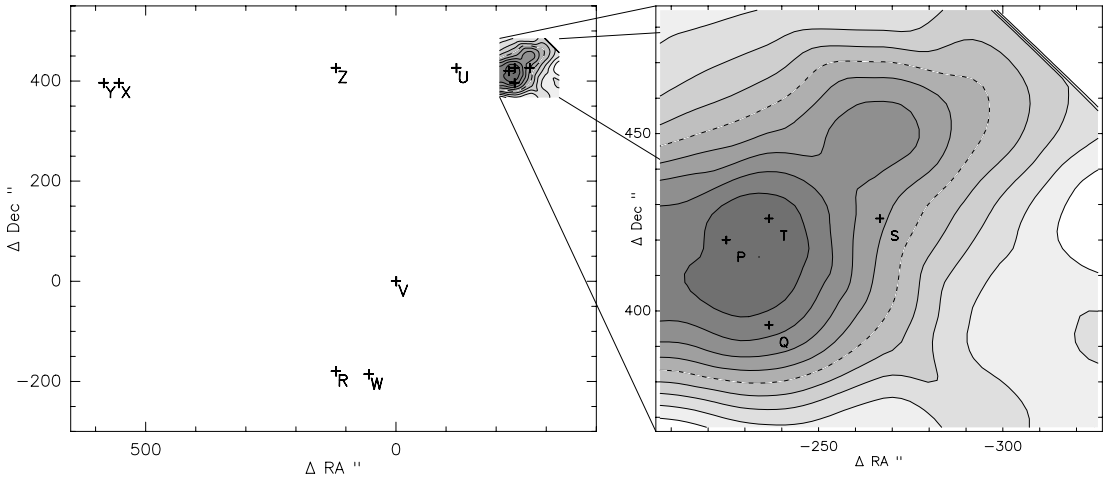
Appendix L

Edge Cloud 1 observations at the OSO 20m telescope May 2005

Figure L.1: ^{12}CO (1–0) map of EC1 showing observed positions P and R:
P. α_{1950} = 02:00:38.2, δ = 63:00:20.0, $v_{\rm rad}$ = −102.80 km s^{-1} (EC1PEAK1).
R. α_{1950} = 02:01:28.7, δ = 62:50:20.0, $v_{\rm rad}$ = −101.20 km s^{-1} (EC1PEAK2).



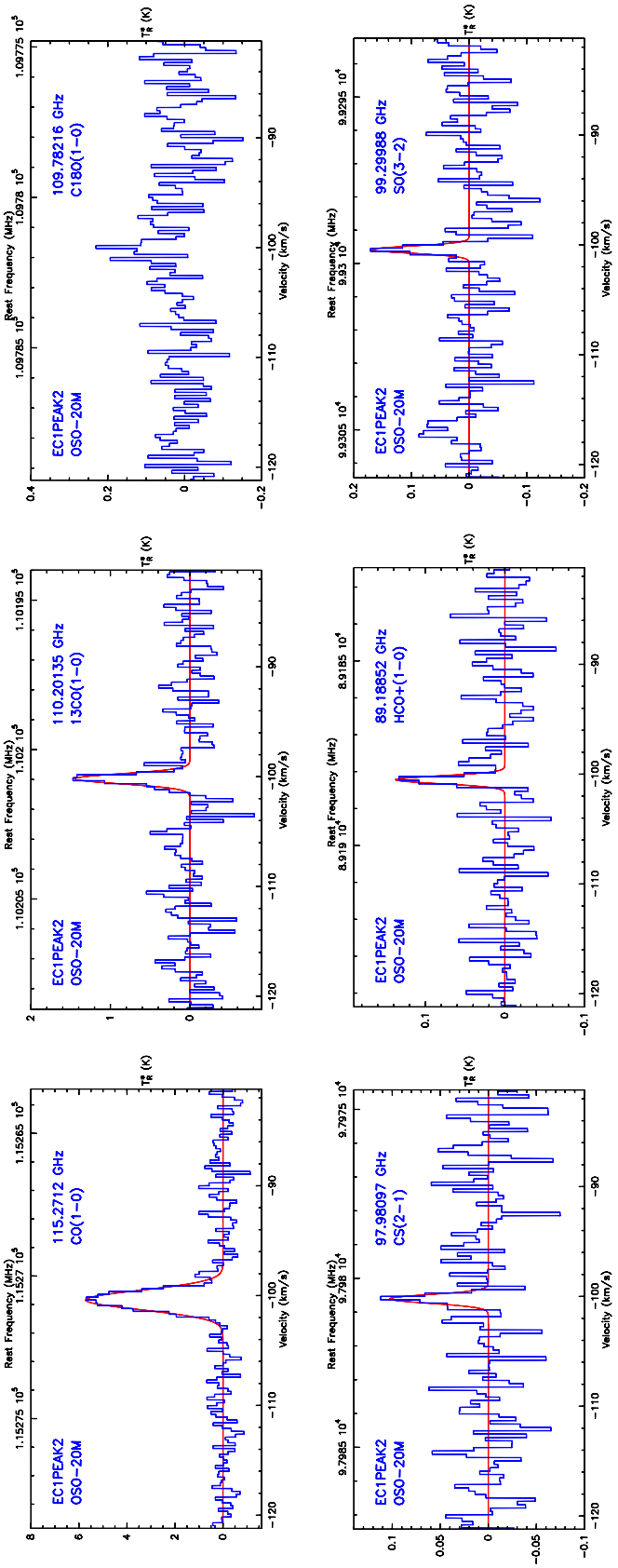


Figure L.2: EC1 position R: spectra observed at the OSO 20m May 2005 (EC1PEAK2: α_{1950} = 02:01:28.7, δ = 62:50:20.0, $v_{\rm rad}$ = −101.20 km s^{-1}).

Table L.1: EC1 position R: spectra observed at the OSO 20m May 2005.
Line spectra summary for Fig. L.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)	Receiver
•	EC1PEAK2	CO	1–0	115.271200	-100.41 ± 0.04	2.07 ± 0.09	12.62 ± 0.45	5.723	0.409	0.260	21	12:47	04:17	1121	OSO-20M
•	EC1PEAK2	^{13}CO	1–0	110.201350	-100.20 ± 0.06	1.07 ± 0.18	1.66 ± 0.21	1.453	0.234	0.272	12	13:47	05:21	556	OSO-20M
	EC1PEAK2	C^{18}O	1–0	109.782160	-100.02 ± 0.55	6.01 ± 1.22	0.61 ± 0.11	0.096	0.060	0.273	241	11:37	03:34	513	OSO-20M
•	EC1PEAK2	CS	2–1	97.980970	-100.23 ± 0.11	0.92 ± 0.25	0.10 ± 0.02	0.103	0.029	0.306	320	13:14	05:11	382	OSO-20M
•	EC1PEAK2	HCO$^+$	1–0	89.188520	-100.52 ± 0.07	0.82 ± 0.16	0.12 ± 0.02	0.138	0.028	0.336	372	08:53	00:50	412	OSO-20M
•	EC1PEAK2	SO	3–2	99.299880	-100.44 ± 0.08	0.76 ± 0.18	0.14 ± 0.03	0.171	0.043	0.302	198	14:29	06:26	432	OSO-20M

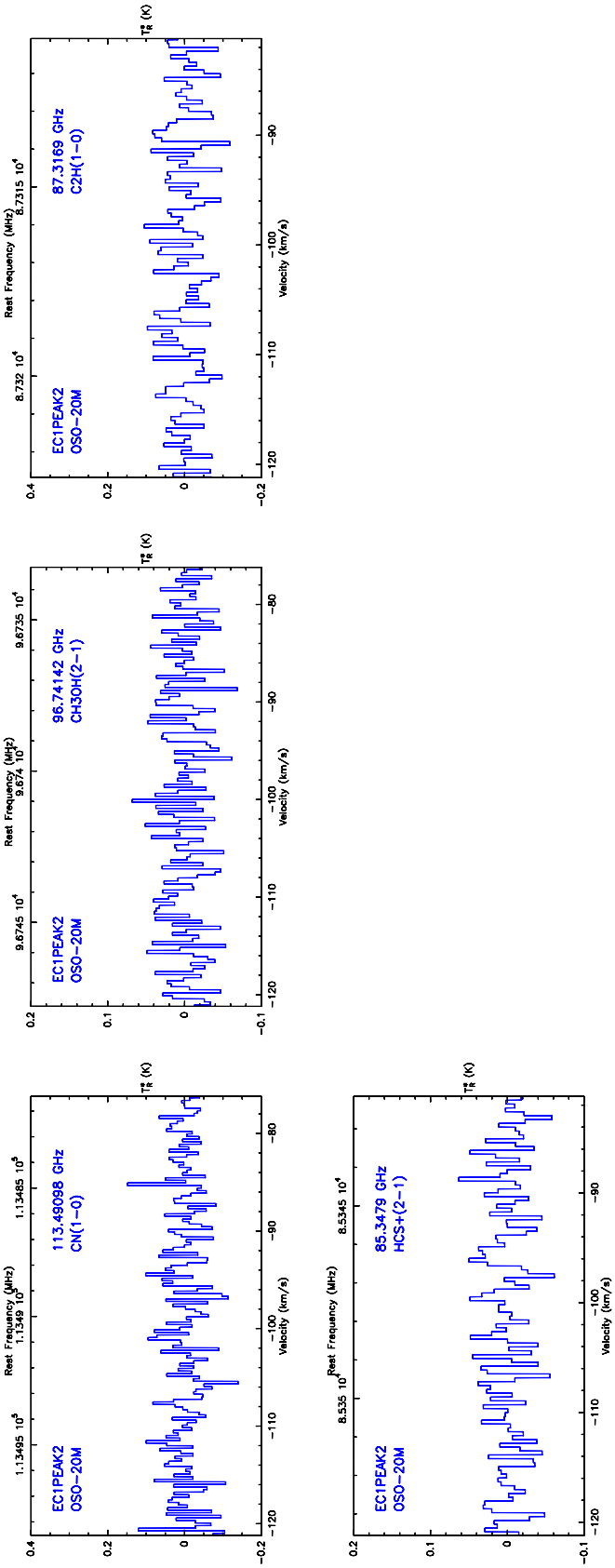


Figure L.3: EC1 position R: spectra observed at the OSO 20m May 2005 (EC1PEAK2: α_{1950} = 02:01:28.7, δ = 62:50:20.0, $v_{\rm rad}$ = −101.20 km s^{-1}).

Table L.2: EC1 position R: spectra observed at the OSO 20m May 2005.
Line spectra summary for Fig. L.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)	Receiver
	EC1PEAK2	CN	1–0	113.490980	—	—	—	—	0.048	0.264	344	18:55	10:50	543	OSO-20M
	EC1PEAK2	CN	1–0	113.488138	—	—	—	—	0.048	0.264	344	18:55	10:50	543	OSO-20M
	EC1PEAK2	CH_3OH	2–1 $_{0,2-0,1}\,A^+$	96.741420	—	—	—	—	0.029	0.310	251	13:12	05:05	322	OSO-20M
	EC1PEAK2	CH_3OH	2–1 $_{-1,2--1,1}\,E$	96.739436	—	—	—	—	0.029	0.310	251	13:12	05:05	322	OSO-20M
	EC1PEAK2	C_2H	1–0	87.316900	-98.29 ± 1.20	0.86 ± 1.45	0.05 ± 0.04	0.058	0.050	0.343	156	23:26	15:10	443	OSO-20M
	EC1PEAK2	HCS^+	2–1	85.347900	—	—	—	—	0.026	0.351	180	15:31	07:17	269	OSO-20M

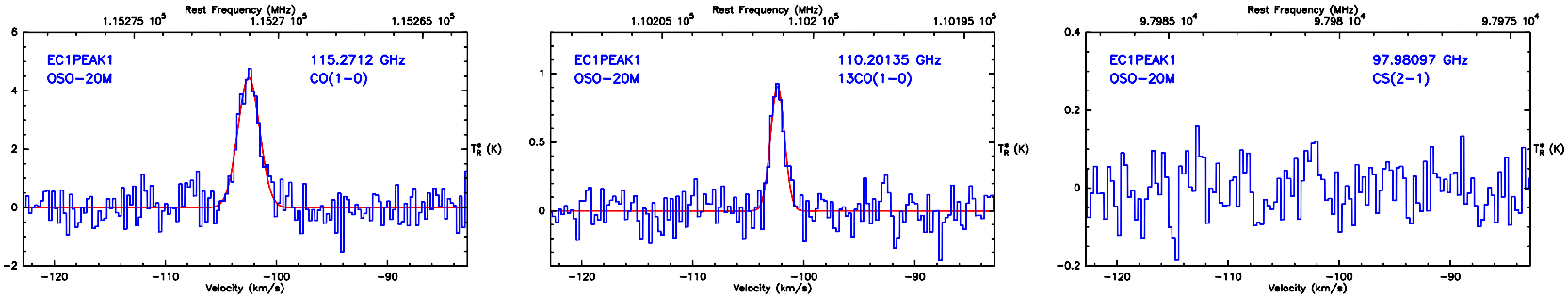


Figure L.4: EC1 position P: CO, ^{13}CO and CS spectra observed at the OSO 20m May 2005 (EC1PEAK1: α_{1950} = 02:00:38.2, δ = 63:00:20.0, $v_{\rm rad}$ = −102.80 km s^{-1}).

Table L.3: EC1 position P: CO, ^{13}CO and CS spectra observed at the OSO 20m May 2005. Line spectra summary for Fig. L.4 (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})	$T_{\rm R}^{*}$ (K)	rms (K)	Resol. (km s^{-1})	Time (min)	UT	LST	$T_{\rm sys}$ (K)	Receiver
•	EC1PEAK1	CO	1–0	115.271200	-102.49 ± 0.06	2.30 ± 0.15	10.89 ± 0.59	4.450	0.499	0.260	27	11:49	03:19	1433	OSO-20M
•	EC1PEAK1	^{13}CO	1–0	110.201350	-102.36 ± 0.05	1.48 ± 0.13	1.43 ± 0.11	0.904	0.111	0.272	85	13:14	04:47	652	OSO-20M
	EC1PEAK1	CS	2–1	97.980970	-102.37 ± 0.21	1.09 ± 0.38	0.14 ± 0.05	0.120	0.062	0.306	94	18:13	09:47	439	OSO-20M