Table 1: Semiregulars with H_2O maser emission

GCVS	Type	α(1950) (h m s)	δ(1950) (° ′ ″)	Obs. date	V_p (km s^{-1})	S_p (Jy)	ΔV (km s^{-1})	S_i (10^{-22}Wm^{-2})
T Ari[a]	SRa	02 45 32.8	17 18 11	12/92	−4.8	0.3		<10
				4/93	−4.8	1.4		<10
W Per[a]	SRc	02 46 55.1	56 46 35	12/92	−35.8	1.0		17
				4/93	−36.4	0.9		15
IR Per[a]	SRa	04 16 36.5	40 56 37	12/92	−28.5	16.8		175
				4/93	−28.4	3.6		47
RW Lep	SRa	05 36 37.	−14 03 36	12/92	−57.4	1.9		19
				4/93	−61.7	1.2		63
					−57.4	4.6		
HU Pup	SRa	07 53 38.6	−28 30 55	12/92	36.3	3.3	16.3	1551
					39.9	26.5		
					41.4	22.7		
					43.6	39.8		
					45.5	24.6		
					48.5–50.5	∼6		
					51.0	17.8		
RT Hya[a]	SRb	08 27 13.2	−06 09 01	12/92	24.5	3.8		48
				4/93	24.7	1.2		13
RS Cnc[a]	SRc	09 07 37.7	31 10 04	12/92	5.5	0.3		<10
				4/93		<1.2		
R Crt	SRb	10 58 05.6	−18 03 20	12/92	4.2	194.9	18.5	7327
					6.2	71.7		
					7.9	85.6		
					9.0	455.7		
					11.6	38.7		
					12.8	89.3		
					14.1	17.1		
					15.5	10.0		
					16.4	9.0		
					17.1	7.4		
				4/93	4.3	247.4	18	7700
					5.4	116.1		
					6.3	64.5		
					8.4	214.1		
					9.0	191.2		
					10.4	19.8		
					11.6	33.0		
					12.8	58.8		
					15.7	35.9		
AF Leo	SRb	11 25 16.4	15 25 22	12/92	3.5	∼0.8		21
					9.8	0.5		
				4/93	3.9	4.1	8.8	42
					9.7	0.9		
S Crt	SRb	11 50 11.7	−07 19 08	12/92	34.7	22.4	8.3	2618
					36.3	10.4		
					39.9	333.5		
				4/93	34.7	21.1	8.5	2031
					36−37	10.0		
					37.5	10.6		
					39.7	250.9		
Y UMa[a]	SRb	12 38 03.5	56 07 19	12/92	19.4	0.3		<10
				4/93	19.7	0.6		<10

GCVS	Type	α(1950) (h m s)	δ(1950) (° ′ ″)	Obs. date	$V_{\rm p}$ (km s^{-1})	$S_{\rm p}$ (Jy)	ΔV (km s^{-1})	$S_{\rm i}$ (10^{-22}Wm^{-2})
RT Vir	SRb	13 00 06.1	05 27 14	12/92	10.4	80.0	18.1	3081
					12.4	67.8		
					16.0	11.4		
					17.5	22.0		
					19.6	4.5		
					21.4	14.9		
					23.0	34.2		
					24.6	73.6		
				4/93	10.5	260.1	17.7	5632
					12.6	199.8		
					16.1	15.2		
					17.4	15.2		
					22.8	51.5		
					24.5	25.5		
V CVn	SRa	13 17 17.1	45 47 20	12/92	2−4.	∼0.4		<10
				4/93		<0.5		
W Hya	SRa	13 46 12.5	−28 07 11	12/92	39.8	13.6	5.8	520
					41.9	40.1		
RX Boo	SRb	14 21 58.	25 55 54	12/92	−4.7	3.6	11.4	263
					−3.7	6.3		
					0.5	3.5		
					2.0	6.6		
					3.8	4.4		
				4/93	−4.6	11.4	10.9	695
					−3.0	12.8		
					−2.1	8.8		
					0.2	7.3		
					2.1	7.1		
					3.8	37.1		
X Her[a]	SRb	16 01 07.9	47 22 36	12/92	−79.0	1.9		46
					−73.3	2.6		
					−68.1	∼0.3		
				4/93	−79.2	1.8	14.0	57
					−73.2	2.7		
					−68.6	1.0		
R UMi	SRb	16 30 37.2	72 23 14	4/93	−7.4	2.3		30
					−5.4	0.8		
UV Cyg[a]	SRb	19 29 37.9	43 31 45	12/92	11.6	4.1	16.8	127
					12.9	2.8		
					14.3	0.8		
					23.5	1.8		
					25.4	6.9		
				4/93	12.7	17.3	15.2	188
					22.9	6.9		
					25.3	3.1		
UU Dra[a]	SRb	20 24 53.8	75 05 24	12/92	−28.0	5.6	10	112
V Aqr	SRa	20 44 18.	02 15 14	12/92	−26.	0.3		<10
				04/93	−26.3	0.5		<10
SV Peg	SRb	22 03 30.7	35 06 14	12/92	0.4	27.8	∼9	282
					3.6	6.6		
					7.5	1.1		
				4/93	0.3	4.2		86
					1.5	2.6		
					3.4	2.2		
					4.9	2.2		
					17.3	0.3:		
BI Peg[a]	SRa	22 55 23.6	17 44 58	12/92	−21.0	6.8		51
				4/93	−21.0	11.0		82
RS And	SRa	23 52 50.3	48 21 37	12/92	4.7	0.5		12
					8.2	0.5		
				4/93		<0.6		

[a] new detections

Table 2: Semiregulars not detected as H_2O maser sources

GCVS	IRAS	α(1950) (h m s)	δ(1950) (° ′ ″)	Obs. date	Velocity range (km s^{-1})	3σ (Jy)
TT Peg	00039+2648	00 03 54.7	26 48 41	12/92	−160;160	0.3
T Cet	00192−2020	00 19 14.7	−20 20 05	12/92	−160;160	0.5
KS Cas	00541+4825	00 54 11.6	48 25 55	12/92	−160;160	0.3
				4/93	−160;160	0.4
EH And	01003+4535	01 00 20.4	45 35 57	12/92	−160;160	0.3
RT Psc	01110+2652	01 11 04.	26 52 06	12/92	−160;160	0.2
ST Psc	01251+1626	01 25 09.3	16 26 44	12/92	−160;160	0.2
				4/93	−160;160	0.9
SV Psc	01438+1850	01 43 52.0	18 50 09	12/92	−15;35	0.5
				4/93	−25;55	0.7
UZ Cet	02036−1027	02 03 38.	−10 27 00	12/92	−160;160	0.3
BV Per	02158+5101	02 15 53.2	51 01 35	12/92	−160;160	0.3
UX And	02302+4525	02 30 12.1	45 26 00	12/92	−50;30	0.5
EL Per	02367+5155	02 36 48.	51 55 36	12/92	−160;160	0.3
Z Eri	02455−1240	02 45 32.3	−12 40 05	12/92	−160;160	0.3
RR Eri	02497−0828	02 49 47.0	−08 28 17	12/92	−50;30	0.5
ρ Per	03019+3838	03 01 59.3	38 38 55	12/92	−160;160	0.2
AA Per	03118+4623	03 11 48.	46 23 48	12/92	−160;160	0.2
				4/93	−160;160	0.4
VY Eri	03388−1054	03 38 52.6	−10 54 43	12/92	−10;70	0.5
BR Eri	03463−0710	03 46 20.6	−07 10 01	12/92	10;80	0.5
SU Eri	03489−0131	03 48 54.8	−01 31 14	12/92	−70;0	0.5
IU Tau	04328+2824	04 32 49.8	28 24 46	12/92	−160;160	0.2
VY Cam	05019+5634	05 01 55.6	56 34 25	12/92	−160;160	0.3
V430 Ori	05040+0028	05 04 01.5	00 28 58	12/92	−160;160	0.3
AB Tau	05378+2804	05 37 53.1	28 04 54	12/92	−160;160	0.2
				4/93	−160;160	0.3
TW Aur	05534+4530	05 53 25.4	45 30 13	12/92	−20;55	0.5
				4/93	−20;55	0.6
RS Aur	06001+4617	06 00 07.1	46 17 39	12/92	−160;160	0.3
				4/93	−160;160	0.3
S Lep[a]	06036−2411	06 03 41.9	−24 11 24	12/92	−50;0	0.8
				4/93	−40;35	1.2
BU Aur	06067+3125	06 06 42.9	31 25 02	4/93	−160;160	0.5
GI Ori	06104+1833	06 10 25.	18 33 30	12/92	−160;160	0.2
VW Aur	06139+3313	06 13 57.4	33 13 31	12/92	−160;160	0.3
				4/93	−160;160	0.5
V Lyn	06250+6134	06 25 04.4	61 34 32	12/92	−160;160	0.3
				4/93	−160;160	0.2
GL Mon	06333−0520	06 33 19.0	−05 20 07	12/92	−160;160	0.3
				4/93	−160;160	0.3
SU Lyn	06387+5531	06 38 45.9	55 31 25	12/92	−50;25	0.5
				4/93	−50;25	0.5
X Mon	06548−0859	06 54 48.1	−08 59 49	12/92	−160;160	0.3
RZ UMa	08063+6522	08 06 18.5	65 22 21	12/92	−160;160	0.3
				4/93	−160;160	0.2
RX Cnc	08117+2453	08 11 43.8	24 53 16	12/92	−160;160	0.3
				4/93	−160;160	0.3

GCVS	IRAS	α(1950) (h m s)	δ(1950) (° ′ ″)	Obs. date	Velocity range (km s^{-1})	3σ (Jy)
Z Cnc	08196+1509	08 19 37.1	15 09 11	12/92	−160;160	0.3
				4/93	−160;160	0.3
W Pyx	08346−1747	08 34 36.9	−17 47 46	12/92	−160;160	0.4
				4/93	−160;160	0.5
AK Hya	08375−1707	08 37 35.9	−17 07 32	12/92	−5;70	0.8
				4/93	−5;70	0.9
EY Hya	08437+0149	08 43 45.2	01 49 00	12/92	−160;160	0.3
				4/93	−160;160	0.3
RT Cnc	08555+1102	08 55 33.1	11 02 22	12/92	−160;160	0.2
				4/93	−160;160	0.4
FF Hya	10353−1145	10 35 20.5	−11 45 22	4/93	−160;160	0.4
T Crt	11213−1938	11 21 23.5	−19 38 03	12/92	−160;160	0.4
				4/93	−160;160	0.5
ST UMa	11251+4527	11 25 07.	45 27 54	12/92	−160;160	0.2
Z UMa	11538+5808	11 53 54.0	58 08 59	12/92	−160;160	0.3
TZ Vir	12020+0254	12 02 01.5	02 54 00	12/92	−25;55	0.2
				4/93	−160;160	0.3
BK Vir	12277+0441	12 27 48.	04 41 33	12/92	−160;160	0.3
SW Vir	13114−0232	13 11 29.7	−02 32 34	12/92	−50;25	0.5
				4/93	−50;20	0.5
RV Boo	14371+3245	14 37 09.0	32 45 15	12/92	−30;40	0.5
				4/93	−35;45	0.5
RW Boo	14391+3147	14 39 05.9	31 47 07	12/92	−160;160	0.2
				4/93	−160;160	0.2
ST Her	15492+4837	15 49 16.0	48 37 55	12/92	−45;25	0.5
				4/93	−50;25	0.5
RS CrB	15566+3609	15 56 38.9	36 09 48	12/92	−110;−40	0.5
				4/93	−115;−35	0.4
DX Ser	16060−0124	16 06 00.5	−01 24 23	12/92	−160;160	0.3
				4/93	−160;160	0.3
RY CrB[a]	16211+3057	16 21 07.8	30 57 56	4/93	−10; 65	0.5
AH Dra	16473+5753	16 47 23.8	57 53 58	4/93	25;100	0.4
SY Oph	16521−2153	16 52 07.5	−21 53 25	12/92	−75;0	1.0
				4/93	−80;0	0.9
V438 Oph[a]	17123+1107	17 12 18.9	11 07 29	12/92	−25;45	0.5
				4/93	−30;50	0.5
UX Sgr	18520−1635	18 52 00.6	−16 35 25	12/92	−25;45	0.7
				4/93	−30:45	0.6
RW Sct	18537−1035	18 53 45.5	−10 35 29	12/92	−160;160	0.3
				4/93	−160;160	0.3
R Lyr	18537+4352	18 53 49.	43 52 48	12/92	−160;160	0.2
SU Sgr	19007−2247	19 00 44.4	−22 47 10	12/92	−160;160	0.4
				4/93	−160;160	0.4
V844 Aql	19045+0704	19 04 31.1	07 04 22	4/93	−160;160	0.2
AF Cyg	19287+4602	19 28 42.7	46 02 25	12/92	−160;160	0.2
				4/93	−160;160	0.2
GY Aql	19474−0744	19 47 24.7	−07 44 32	12/92	−5;70	0.5
				4/93	−5;70	0.5
GN Cyg	20026+4018	20 02 38.3	40 18 01	4/93	−160;160	0.2
AC Cyg[a]	20113+4917	20 11 21.4	49 17 57	12/92	−70;0	0.5
				4/93	−70;5	0.4
AI Cyg	20297+3221	20 29 44.7	32 21 05	12/92	−160;160	0.2
				4/93	−160;160	0.2

GCVS	IRAS	α(1950) (h m s)	δ(1950) ($^\circ$ $'$ $''$)	Obs. date	Velocity range (km s^{-1})	3σ (Jy)
EU Del	20356+1805	20 35 38.2	18 05 30	12/92	−85;−10	0.5
				4/93	−85;−10	0.4
RZ Cyg	20502+4709	20 50 12.7	47 09 56	12/92	−160;160	0.2
				4/93	−160;160	0.2
RS Cap	21044−1637	21 04 28.8	−16 37 23	12/92	−45;35	0.8
				4/93	−45;35	0.6
V702 Cyg	21142+5349	21 14 16.9	53 49 01	12/92	−160;160	0.2
W Cyg	21341+4508	21 34 08.1	45 08 55	12/92	−160;160	0.2
				4/93	−160;160	0.2
EM Peg	21367+0804	21 36 44.3	08 04 27	12/92	−160;160	0.2
RU Cyg	21389+5405	21 38 58.1	54 05 42	12/92	−45;30	0.5
				4/93	−45;35	0.4
EP Aqr[a]	21439−0226	21 43 56.8	−02 26 39	4/93	−75;5	0.5
GN Cep	21581+5707	21 58 10.9	57 07 22	12/92	−160;160	0.2
TW Peg	22017+2806	22 01 43.2	28 06 19	12/92	−50;25	0.6
				4/93	−50;25	0.4
TT Cep	22039+6215	22 03 56.4	62 15 35	12/92	−160;160	0.2
BC Peg	22393+2054	22 39 23.6	20 54 30	12/92	−160;160	0.3
				4/93	−160;160	0.2
U Lac	22456+5453	22 45 39.6	54 53 36	12/92	−160;160	0.2
RX Lac	22476+4047	22 47 40.3	40 47 05	12/92	−60;15	0.5
				4/93	−60;15	0.5
TV And	22557+4228	22 55 46.	42 28 06	12/92	−160;160	0.2
AK Peg	23006+1105	23 00 40.5	11 05 21	12/92	−160;160	0.4
SV Cas	23365+5159	23 36 35.6	51 59 04	12/92	−160;160	0.2
				4/93	−160;160	0.3
RT Cas	23439+5412	23 43 56.9	54 12 29	12/92	−160;160	0.2
				4/93	−160;160	0.3
TZ And	23483+4713	23 48 21.6	47 13 47	12/92	−160;160	0.2
				4/93	−160;160	0.4

[a] previously detected as H_2O maser sources (Dickinson & Dinger 1982; Engels & Lewis in prep.)

Table 3: Asymmetry of H_2O maser lines

Star	Date	$v_\star^{(a)}$ (km s^{-1})	S_B/S_I
R Crt	12/92	11	0.85
	4/93		0.86
Y Uma	12/92	17	0.00
RT Vir	12/92	17	0.57
	4/93		0.85
W Hya	12/92	41	0.37
RX Boo	12/92	1	0.60
	4/93		0.55
X Her	12/92	−73	0.83
	4/93		0.63
UU Dra	12/92	−25	1.00
SV Peg	12/92	5	0.95
	4/93		0.91

[(a)] Margulis et al. (1990), Nyman et al. (1992)

Table 4: Properties of the H_2O maser semiregular variables

GCVS	var. type	Period (d)	Sp. type	[12]−[25]	D (kpc)	F_{12} (Jy kpc^2)	log L_{H_2O} (s^{-1})	V_e (km s^{-1})	$\dot{M}$ (10^{-7}M$_\odot$ yr^{-1})
T Ari	SRa	323	6e	−1.01	0.35	1.08	<41.0		0.70
IR Per	SRa	175	6.5	−0.60	0.20	0.88	41.8		0.57
RW Lep	SRa	150	8	−0.88	0.25	0.64	41.5		0.34
S Lep	SRb	90	6	−0.66	0.10	0.39	40.2[1]		0.14
HU Pup	SRa	238	3	−0.04	0.74	1.68	43.8		7.50
RT Hya	SRb	253	6e	−1.03	0.24	0.79	41.3		0.32
R Crt	SRb	160	7	−0.79	0.11	0.87	42.9	11.	0.52
AF Leo	SRb	107	5	−0.48	0.27	0.53	41.4		0.26
S Crt	SRb	155	6e	−0.93	0.26	0.54	43.2		0.23
Y Uma	SRb	168	7	−0.81	0.16	0.67	<40.3	8.8	0.34
RT Vir	SRb	155	8	−0.78	0.12	0.79	42.8	11.3	0.47
V CVn	SRa	192	4e	−0.79	0.36	1.23	<41.0		0.63
W Hya	SRa	382	7.5	−1.37	0.08	1.50	41.5	8.8	1.30
RX Boo	SRb	340	6.5e	−0.76	0.13	1.13	42.0	11.5	0.98
X Her	SRb	95	6e	−0.76	0.07	0.36	40.4	11.7	0.17
RY CrB	SRb	90	10	−0.59	0.24	0.16	<40.7[2]		0.14
R Umi	SRb	324	7e	−0.93	0.34	1.08	41.5		0.71
V438 Oph	SRb	154	7	−0.67	0.25	0.58	<42.0[2]		0.24
UV Cyg	SRb	136	6	−0.62	0.24	0.78	42.0		0.51
AC Cyg	SRb	142	7	−0.67	0.20	0.60	<41.0[1]		0.29
UU Dra	SRb	120	8e	−0.42	0.19	0.67	41.5	10.	0.42
V Aqr	SRa	244	6e	−1.13	0.33	0.88	<41.0		0.33
EP Aqr	SRb	55	8	−0.92	0.09	0.61	<39.8[2]		0.23
SV Peg	SRb	145	7	−0.64	0.14	0.68	41.7		0.38
BI Peg	SRa	500	6e	−0.66	0.45	0.67	42.1		0.27
RS And	SRa	130	7	−0.86	0.18	0.57	40.5		0.25

[1] Dickinson & Dinger (1982); [2] Engels & Lewis, in prep.