Table 1: Properties of confirmed Class 0 protostars

Object	α(2000)	δ(2000)	Dist. (pc)	L_{bol} ($L_\odot$)	M_{env} ($M_\odot$)	L_{smm}/L_{bol} (%)[a]	T_{bol} (K)	Outflow Manifestations	Infall	Structure[b]	References
W3OH-TW‡	02:27:04.7	+61:52:24	2200	10^3–10^4	~ 20	~ 1	$\gtrsim 80$?	H_2O, radio	–	–	1
L1448-IRS2	03:25:22.4	+30:45:12	300	6	0.9	3	70?	CO	–	–	2
L1448-N	03:25:36.3	+30:45:15	300	11	2.3	3	70	CO, radio	Y?	D, B	3,4,5,6,7,8,9,10
L1448-C	03:25:38.8	+30:44:05	300	9	1.4	2	60	CO, radio, H_2	N?	D	3,4,5,11,12,8,10,13
NGC1333-IRAS2	03:28:55.4	+31:14:35	350	40	1.7	$\lesssim 1$	50	CO, H_2	Y?	–	14,15,9,16,17,13
SVS13B	03:29:03.1	+31:15:52	350	~ 7	2.7	~ 5	~ 30	SiO, H_2	–	–	18,19,20,21,22
NGC1333-IRAS4A	03:29:10.3	+31:13:31	350	14	7.	5	34	CO, radio	Y	D, B	23,24,15,16,25,26,27,28,10,13
NGC1333-IRAS4B	03:29:12.0	+31:13:09	350	14	2.7	3	36	CO, radio	Y	D, B	23,24,15,16,25,28,10,13
IRAS 03282	03:31:20.8	+30:45:31	300	1.5	0.6	5	35	CO, H_2	–	–	29,30,8
HH211-MM	03:43:56.8	+32:00:50	300	5	1.5	~ 4	~ 30	H_2	–	–	31,32
IRAM 04191	04:21:56.9	+15:29:46	140	0.15	0.5	12	18	CO, radio	Y	N?	33
L1527†	04:39:53.9	+26:03:10	140	2	0.4	0.7	60	CO, H_2	Y	D	34,35,36,37,38,6,10,13
HH114MMS	05:18:15.2	+07:12:03	450	$\lesssim 25$	2.8	$\gtrsim 1$	~ 40	radio, HH	–	–	19
RNO43-MM	05:32:19.4	+12:49:42	400	5	0.6	~ 5	36	CO, radio, H_2	N?	–	39,19,40,41,10
OMC3-MM6	05:35:23.5	−05:01:32	450	< 60	12	$\gtrsim 2$	~ 30	CO, H_2	–	–	42,43
L1641-VLA1†	05:36:22.8	−06:46:07	450	50	6.5	~ 3	70?	radio, HH	–	–	44,19,45
NGC2023-MM1	05:41:24.8	−02:18:09	450	~ 8	1.8–4.6	$\sim$ 3–10	~ 30	CO	–	–	46,47
NGC2024-FIR5	05:41:44.5	−01:55:43	450	$\gtrsim 10$	15.	$\lesssim 30$	20	CO	N?	D, B?	48,49,50,10
NGC2024-FIR6	05:41:45.2	−01:56:05	450	$\gtrsim 15$	6.	$\lesssim 10$	20	CO	N?	–	48,49,50,10
HH212-MM	05:43:51.5	−01:02:52	400	14	1.2	~ 2	70?	CO, H_2	–	–	39,19,51
HH24MMS	05:46:08.3	−00:10:42	450	5	4	10	20?	radio, H_2	–	D	52,53,54,55,9,56
HH25MMS†	05:46:07.5	−00:13:36	450	6	0.5	5	34	CO, radio, H_2	Y?	–	54,57,10
NGC2264G-VLA2	06:41:11.1	+09:55:59	800	12	2	2	25	CO, radio	–	–	58,59,60
IRAS 08076†	08:09:32.8	−36:05:00	400	17	2.3	$\gtrsim 1$	74	CO, H_2	–	–	61,16,62
BHR71-MM	12:01:36.3	−65:08:44	200	10	2.4	~ 3	56	CO, HH	–	–	63,62
IRAS 13036†	13:07:36.1	−77:00:05	200	1.7	0.3	$\lesssim 2$	60	CO	Y	–	62,64,13
VLA 1623	16:26:26.4	−24:24:30	160	1	0.7	10	< 35	CO, radio, H_2	Y?	D, B?	65,66,67,68,69,70,9,10,13,71,22
IRAS 16293	16:32:22.7	−24:28:32	160	23	2.3	2	43	CO, radio	Y	D, B	72,73,74,75,26,27,76,77,10,13
Trifid-TC3‡	18:02:07.0	−23:05:11	1680	$\sim 10^3$	~ 60	~ 1	~ 30	SiO	–	–	78
L483-MM†	18:17:29.8	−04:39:38	200	9	0.3	~ 0.7	50	CO, radio	Y?	–	79,37,10,13
Serp-S68N	18:29:47.9	+01:16:46	310	6	1.0	3	40?	CO, CS	Y?	–	80,81,82,83,84,13
Serp-FIRS1†	18:29:49.9	+01:15:20	310	46	3	~ 1	51	CO, radio	N?	N?	85,80,81,82,86,84,10,13,87

Table 1 (cont'd)

Object	α(2000)	δ(2000)	Dist. (pc)	L_{bol} ($L_\odot$)	M_{env} ($M_\odot$)	L_{smm}/L_{bol} (%)[a]	T_{bol} (K)	Outflow Manifestations	Infall	Structure[b]	References
Serp-SMM4	18:29:57.1	+01:13:15	310	9	3	~ 3	35	CO, radio	Y	N?	85,81,82,84,88,10,13,87
Serp-SMM3[†]	18:29:59.7	+01:14:00	310	8	0.9	~ 1	40	CO, H_2	N?	N?	85,81,82,84,89,10,87
G34.24+0.13MM[‡]	18:53:21.5	+01:13:45	3700	4000	100	~ 0.5	50	CH_3OH	–	–	90
L723-MM	19:17:53.7	+19:12:20	300	3	0.6	~ 4	50	CO, radio	N?	–	91,92,32,19,93,94,10
B335	19:37:00.8	+07:34:11	250	3	0.8	6	37	CO, radio	Y	D?	91,95,96,40,97,10,13,98
S106-SMM	20:27:25.3	+37:22:46	600	$\gtrsim 24$	$\lesssim 10$	$\lesssim 8$	$\gtrsim 20$	bip. HII, H_2O	–	–	99,70
L1157-MM	20:39:06.2	+68:02:22	440	11	0.5	~ 5	~ 60	CO, H_2	Y	D?	100,32,101,69,10,13
GF9–2	20:51:30.1	+60:18:39	200	0.3	~ 0.5	~ 10	$\lesssim 20$	–	Y	–	102,103,104
CepE-MM	23:03:13.1	+61:42:26	730	75	7	~ 2	~ 60	CO, H_2	–	–	105,106
IRAS 23385[‡]	23:40:54.5	+61:10:28	4900	16000	370	~ 0.7	$\gtrsim 40$	SiO	–	–	107

[a] L_{smm} is the luminosity radiated longward of 350 μm; Class 0s are defined by $L_{smm}/L_{bol} > 0.5\%$ (see III–A).

[b] Small-scale structure: D = presence of disk-like component; B = binary or multiple system; N = single object with no disk

[†] Border-line Class 0. [‡] Candidate massive Class 0 object.

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