

*This description is an excerpt from the Documentation for the Computer-Readable Version of the Second Reference Catalogue of Bright Galaxies (RC2), catalogue numbered **VII/122**, prepared by Theresa A. Nagy and Robert S. Hill (April 1981), revised by Suzan E. Gessner and Lee E. Brotzman (December 1990) for NASA Goddard Space Flight Center, Greenbelt, MD 20771*

Contents

1 Coding of revised morphological types

Classes	Families	Varieties	Stages	T	Type	Code
Ellipticals		Compact "cD"	Ellipt. (0–6) Intermediate	–6	cE	cE...
				–5	E0	.E.0.
				–5	E0–1	.E.0+
				–4	E+	.E+..
Lenticulars	Non-barred Barred Mixed	Inner ring S-shaped Mixed	Early Intermediate Late		S0	.L
					SA0	.LA
					SB0	.LB
					SAB0	.LX
					S(r)0	.L.R
					S(s)0	.L.S
					S(rs)0	.L.T
				–3	S0 [–]	.L..–
				–2	S0 [°]	.L..0
				–1	S0 ⁺	.L..+
Spirals	Non-barred Barred Mixed	Inner ring S-shaped Mixed	0/a a ab b bc c cd d dm m		SA	.SA
					SB	.SB
					SAB	.SX
					S(r)	.S.R
					S(s)	.S.S
					S(rs)	.S.T
				0	S0/a	.S..0
				1	Sa	.S..1
				2	Sab	.S..2
				3	Sb	.S..3
				4	Sbc	.S..4
				5	Sc	.S..5
				6	Scd	.S..6
				7	Sd	.S..7
8	Sdm	.S..8				
9	Sm	.S..9				
Irregulars	Non-barred Barred Mixed	S-shaped Compact	Non-Magellanic Magellanic		IA	.IA
					IB	.IB
					IAB	.IX
					I(s)	.I.S
				90	I0	.I.0
				10	Im	.I..9
	11	cI	cI			
Peculiars Peculiarities			Peculiarity	99	Pec	.P
					pecP
(All types)			Uncertain Doubtful Spindle Outer ring Pseudo-outer R		:*
					??
					sp/
					(R)	R.....
					(R')	P.....

2 Conversion of Hubble Types to Revised System

Hubble	Revised	T
E	E	-5
E-S0	L-:	-3:
S0	L	-2
IrrII	IO	0:
S0/a	S0/a	0
Sa	Sa	1
Sa-b	Sab	2
Sb	Sb	3
Sb-c	Sbc	4
Sc	Scd:	6:
Sc-Irr	Sdm:	8:
IrrI	Im	10
S...	S.	3?
S“early”	S.(Sa?)	1?
S“late”	S.Sc?	5?

3 Codes for telescope sources of revised types

Observatory	Tel. Ap. (in.)	Code	Observatory	Tel. Ap. (in.)	Code
Palomar	200	P200.	Mt. Wilson	60	W060.
Lick	120	L120.	Tautenburg	52	T052.
Mt. Wilson	100	W100.	Palomar (prints)	48	P048.
McDonald	82	M082.	Palomar (glass)	48	PG48.
Radcliffe	74	R074.	ESO	40	E040.
Mt. Stromlo	74	S074.	Siding Spring	40	S040.
USNO (Flagstaff)	61	N061.	Lick	36	L036.
Boyden	60	B060.	Mt. Stromlo	30	S030.
Cordoba	60	C060.			

4 Codes for author sources of revised types

Code	Reference
....B	Buta, R., Publ. Warner and Swasey Obs., II, in press, 1976
....C	Corwin, H. G., Publ. Dept. Astr. U. Texas, II, 2, No. 12, 1968; II, 3, No. 5, 1970; PASP, 83, 320, 1971; unpublished 1971-1975.
....F	Fisher, J. R., and Tully, R. B., A&A, 44, 151, 1975
....H	Holmberg, E., et al., A&AS, 18, 463 and 491, 1974
....N	Nilson, P., UGC, 1973; Uppsala Obs. Rep. No. 5, 1974
....R	Rood, H. J., and Baum, W. A., AJ, 72, 398, 1967
....V	de Vaucouleurs, G., ApJS, No. 74, 1963; RC1, 1964; unpublished 1964-1975.

5 Codes for Yerkes (Morgan) types

Classes	Type	Code	Classes	Type	Code
Elliptical	E(0-7)	E0	Irregular	I	I
	E-D	ED		S-I	SI
	D-E	DE		I-S	IS
	S-E	SE		I-B	IB
Dusty	D-S S-D	D	Peculiarities	B-I	BI
		DS		L(1)	..L
		SD		P	..P
Spiral	S	S	?:;	*	
Barred	B (B) B-S S-B	B SX BS SB	Color Classes		Code
			a	A	
			af	AF	
			f	F	
			fg	FG	
			g	G	
			gk	GK	
			k	K	
:	*				

(1) Low surface brightness

6 Coding of DDO (van den Bergh) Types

Classes	Families	Stages	Type	Coding	Notes
Elliptical		Ellipicity (0-9)	E0	E 0	(1)
Spiral	Ordinary Barred Intermediate		S	S	
			SB	S B	
			S (B)	S X	
		a	Sa	S 0	
		b-	Sb-	S 2	
		b	Sb	S 3	
		b+	Sb+	S 4	
		c	Sc	S 5	
		-	S-	S 6	
	+	S+	S 7		
Irregular			Ir	I	
			Ir+	I 9	
Peculiar Peculiarities		Bright nucleus	P	P	
		Nebulous arms, mild case	N	N	
		Nebulous arms, normal	(n)	N-	(2)
		Nebulous arms, extreme	n	N	
		Patchy arms, mild case	nn	N+	
		Patchy arms, normal	(*)	K-	
		Patchy arms, normal	*	K	
		Patchy arms, extreme	**	K+	
		Distorted arms,mild case	(t)	T-	
		Distorted arms, normal	t	T	
		Distorted arms, extreme	tt	T+	
Peculiarity	p	P			
Uncertain ?,:(,)		* * *	(3)		
Luminosity Classes	Code	Luminosity Classes	Code		
I	1	III-IV	6		
I-II	2	IV	7		
II	3	IV-V	8		
II-III	4	V	9		
III	5				

(1) Includes lenticulars, especially in ES, E9

(2) Combined cases are coded NK, NT, etc

(3) Applies to symbol or group of symbols immediately preceding it