Table 1. Observing log of Perseus galaxies

name	run	filter	exp. time (min)	seeing (arcsec)	notes
525-19	dec94	V	15	1.7	
525-29	dec94	x	15	1.6	
525-31	feb95	V	15	1.5	
525-6	dec94	x	15	1.6	
540-32	feb95	V	15	1.3	
540-33	feb95	V	15	1.3	
540-35	dec94	V	15	1.6	
540-36	dec94	V	15	1.7	
540-41	feb95	V	15	1.6	
540-42	dec94	x	15	1.6	
540-43	dec94	x	15	1.6	
540-45	dec94	V	15	1.7	
540-46	sep89	r	15	1.3	archive, PIC, CCD=RCA1 F/10 pixel size=0.324
540-48	feb95	V	15	1.2	
540-51	feb95	V	15	1.4	
540-54	dec94	x	15	1.5	
540-56	dec93	r	20	2.6	
540-57	feb95	V	15	1.3	
540-59	dec93	r	20	3.7	
540-60	dec94	x	15	1.6	
540-62	feb95	V	15	1.2	
540-67	dec93	r	20	2.6	
540-68	dec94	V	15	1.7	
540-70	dec94	x	15	1.6	
540-73	plate				OCA #2977
540-74	feb94	r	20	1.0	
540-76	feb94	r	20	1.2	
540-80	plate				OCA #2977
540-81	dec89	r	10	0.7	archive, CFH, CCD=RCA2 (see Paper I)
540-82	dec94	V	15	1.6	
540-83	plate				OCA #2977
540-85	feb95	V	15	1.3	
540-85	feb95	V	15	1.6	
540-89	feb95	V	15	1.4	
540-97	dec93	r	20	2.5	
540-104	plate				OCA #2977
540-106	feb95	V	15	1.5	
540-114	dec93	r	20	2.7	
540-114	plate				OCA #2977

540-115	dec94	V	15	1.5	
541-3	dec93	r	2	1.7	
541-12	dec93	r	20	1.8	
541-14	dec93	r	20	1.9	
541-15S	sep90	r	30	1.1	archive, PIC, CCD=Tho F/10 pixel size=0.2?
541-16N	feb95	V	15	1.4	
541-16S	feb95	V	15	1.4	
541-112N	dec93	r	20	2.7	
BGP41	feb94	r	15	1.1	
T40	feb95	V	15	1.4	
T40	feb95	V	15	1.3	
T04	dec93	r	20	1.8	Not analyzed, bright star at 14”

Notes :
feb93: CCD Thompson 1024x1024, pixel size=0.24
dec93: CCD Thompson 1024x1024, pixel size=0.48 (0.24 2x2 binned)
feb94: CCD Thompson 1024x1024, pixel size=0.24 (the observations in the x filter were done with an unknown filter, because of a mechanical fault).
dec94: CCD Tektronics 1024x1024, pixel size=0.30
feb95: CCD Tektronics 1024x1024, pixel size=0.30

Table 2. Galaxies classified as S from visual inspection of the plates OCA2842 and OCA2849 (all but two not presented in Paper I)

GMP_o	GMP_a	characteristics	other observations	notes
0938	0315	irr	run 10, S	
1353	0433	asym		dust, edge-on, uncertain type
1367	0440	irr, asym		
1576	0507	irr, asym	run 9, S	Irr
1582	0510	irr, asym, low SuBr		Irr
2059	0686	arms	run 7, S, GavIII, S	
2073	0689	asym, irr		
2347	0790	irr, arms	run 10, S	
2374	0804	irr, arms	GavI, S, GavIV, S	beautiful S
2431	0834	irr?, spiP?		uncertain type, classified S by D80, BO
2441	0837	arms	GavI, S	beautiful barred S
2516	0867	irr	run 9, SA0/a	strange shape on plate
2536	0875	irr, asym		late type spiral or Irr
2582	0892	asym		dust, no bulge
2599	0897	irr		Irr
2640	0914	asym, arms	run 10, S	
2796	0978	asym, irr		
2834	1001	irr	run 10, S	outside the redshift limits
3253	1193	irr, asym		
3271	1203	asym		
3779	1420	irr, asym	GavIV, S	
4135	1555	irr	GavIV, S	Irr
4159	1566	irr, asym		Irr
4192	1576	arms		
4437	1675	irr, asym	GavIII, S	
4522	1711	spiP		beautiful barred S
4597	1744	spiP		uncertain type, classified S by BO
5643	2156	irr		Irr
5678	2172	irr, asym, spiP?		late type spiral
5978	2275	asym		dust
0983	0315	asym		
2347	0790	spiP		
2834	1001	irr, asym		
1576	0507	arms, irr	march 94	Irr, not in the published list
1616	0518	S in kp1608	run 7, S	not published in Paper I

Notes:
BO= Butcher & Oemler 1985

GavI= Gavazzi, Garilli & Boselli 1990
GavIII= Gavazzi & Randone 1994
GavIV= Gavazzi, Boselli & Carrasco 1994
D80= Dressler 1980
kp1608= KPNO photographic plate (see Paper I)
run 7= CCD observations in March 1993 (see Paper I)

Table 3. Morphological description of spiral galaxies in Perseus

Name	Palomar dig.	OCA #2977	Notes OCA #2977	CCD	Run n. & Notes
Zw 525-6				S	dec94
Zw 525-11		S	very low SuBr		
Zw 525-19				(r)S barred	dec94
Zw 525-29				S	dec94
Zw 525-31			too close to bright star	S	feb95
Zw 525-33	Irr				
Zw 525-39	S				
Zw 540-34	S arms				
Zw 540-35				S	dec94
Zw 540-36				S flocculent	dec94
Zw 540-37	S late				
Zw 540-42				S	dec94
Zw 540-43				S asymm	dec94
Zw 540-45				S	dec94
Zw 540-49	S dust	S			
Zw 540-54				S barred	dec94
Zw 540-58	S irr	Pec	Interact		
Zw 540-60				S late	dec94
Zw 540-67				Irr	dec93
Zw 540-68				S	dec94
Zw 540-70		late type?		S dusty	dec94
Zw 540-71		S	low SuBr, asym		
Zw 540-77		S			
Zw 540-82				S	dec94
Zw 540-84		Irr			
Zw 540-90	S late	S			
Zw 540-91	S arms	S			
Zw 540-93	S				
Zw 540-94		S	low SuBr, elongated, ->dust		
Zw 540-97				S two faint arms, bar, disk	dec93
Zw 540-106	S	disk	disk		feb95
Zw 540-115			other galaxy at 6”	S dusty	dec94
Zw 540-118	S?	S			

Zw 540-121		S	disk, irr		
Zw 541-3	Irr			Irr	dec93, embedded] in the halo of] a bright star,
Zw 541-19	S arms, HII reg.				out of redshift] limits
Zw 541-112N				Pec (Interact?)	dec93

Description of Table 4 (Coma galaxies)

(1) and (2) Number in the abridged and unabridged versions of the Godwin, Metcalf & Peach (GMP) catalogue.
(3) Number in Dressler's catalogue (Dressler 1980).
(4) Usual designation, such as NGC, IC (Dreyer 1888), and RB (Rood & Baum 1967) numbers.
(5) Asymptotic magnitude, in V (Johnson's system).
(6) Logarithm of the effective radius, in units of arcsec ($\log(r_e)$).
(7) Logarithm of the semi major axis of the effective isophote, in units of arcsec ($\log(l_e)$).
(8) Mean SuBr inside the effective isophote, in V mag arcmin^{-2}.
(9) Photometric evidence for a disk, coded as st (strong), cl (clear), ft (faint), or no (none).
(10) Typical axis ratio, either its minimum value, if clearly defined, or its value at the effective isophote otherwise.
(11) Location where the axis ratio was estimated, coded as ex (at its extremum), re (at the effective isophote), or co (if the value is the same at both locations).
(12) Typical e_4 parameter, either its extremum value, if clearly defined, or its value at the effective isophote otherwise. The estimates are in %.
(13) Location where the e_4 parameter was estimated, coded as ex (at its extremum), re (at the effective isophote), or co (if the value is the same at both locations).
(14) Axis ratio in the envelope, i.e. at the isophote $\mu_V = 24.85$ mag arcsec^{-2}.
(15) Amplitude of isophotal twist in the range of reliable measurements, in degrees.
(16) Detection of a bar, coded as follows : bar (bar seen), bar? (bar suspected), -no (no bar seen).
(17) Detection and classification of a disk, coded as follows: emDi (embedded disk), miDi (mixed disk), exDi (extended disk), -?Di (detected but unclassified disk), -no- (no disk seen).
(18) Detection of a spiral pattern, coded as follows: spiP (spiral pattern seen), spiP? (spiral pattern suspected), -no- (no spiral pattern seen).
(19) Classification of an envelope, coded as follows: spH (spheroidal halo), thD (thick disk), exD (extended disk), pec (peculiar envelope), -?- (unclassified envelope).
(20) Our morphological classification, coded as follows: boE (boxy E), unE (undetermined E), diE (disky E), SA0, SAB0, SB0, Sa, etc., S... (spiral of unknown stage).
(21) An asterisk refers to a note in Sect. 5 about specific features such as important dust pattern, ring or lens, low SuBr, f_4-asymmetry, etc., and about uncertainties of various sources.

Note that, when a parameter has not been measured, or when a specific morphological component has not been studied, the relevant code is replaced by a dash.

Table 4. Morphological description of early-type galaxies in Coma

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
0552	1715	141	NGC 4927	13.56	0.93	1.02	11.31	no	0.70	co	1.2	co	0.73	3	-no	miDi	-no-	thD	diE	*
0607	1853	190		–.–	-.–	-.–	–.–	st	0.26	ex	8.0	ex	0.29	2	-no	miDi	-no-	thD	SA0	*
0718	2157	79	NGC 4919	13.73	0.71	0.80	10.39	st	0.72	re	2.2	ex	0.49	4	-no	-?Di	-no-	pec	SA0	*
0750R	2237	80		14.63	0.55	0.65	10.47	st	0.59	ex	3.0	co	0.99	2	-no	emDi	-no-	spH	SA0	*
0750	2237	80		15.06	0.55	0.65	10.91	st	0.59	ex	3.0	co	0.92	30	-no	emDi	-no-	spH	SA0	*
0754	2259	229		15.01	0.59	0.64	11.03	no	0.80	re	1.8	co	0.71	10	-no	miDi	-no-	exD	diE	*
0828	2417	167	NGC 4908	13.77	0.70	0.78	10.39	ft	0.67	ex	-0.8	ex	0.65	8	-no	-no-	-no-	-?-	unE	*
0857	2495	231		14.55	0.42	0.54	9.73	cl	0.50	ex	4.0	ex	0.60	0	-no	miDi	-no-	spH	SA0	
0908	2629	232	NGC 4896	13.77	0.87	1.00	11.20	ft	0.52	ex	0.0	re	0.55	3	-no	-no-	-no-	-?-	unE	*
0924	2670	27		15.26	0.51	0.57	10.90	ft	0.80	ex	1.6	ex	0.82	3	-no	-?Di	-no-	-?-	diE	
0967	2776	39		14.91	0.54	0.58	10.73	no	0.78	ex	0.0	co	0.78	2	-no	-no-	-no-	-?-	unE	*
1109	3073	175	NGC 4883	14.24	0.61	0.64	10.44	cl	0.71	ex	-1.0	re	0.82	45	bar	-?Di	-no-	-?-	SB0	*
1154	3165	57		13.85	0.65	0.81	10.22	st	0.25	ex	8.0	ex	0.34	4	-no	emDi	-no-	spH	SA0	*
1232	3328	242		15.01	0.36	0.44	9.91	cl	0.50	ex	2.5	ex	0.52	2	-no	miDi	-no-	thD	SA0	
1432	3818	218		14.18	0.60	0.70	10.26	no	0.45	ex	2.5	co	0.45	11	-no	-?Di	spiP	exD	S..	*
1560	4147			14.27	0.64	0.74	10.59	st	0.50	ex	3.2	co	0.61	1	-no	emDi	-no-	spH	SA0	
1564	4156	43	NGC 4853	13.49	0.54	0.58	9.29	st	0.78	ex	0.0	re	0.82	10	-no	-no-	-no-	-?-	SAB0p	*
1594	4230	161	RB 241	13.98	0.76	0.80	10.89	no	0.87	co	-0.8	co	0.91	20	-no	-no-	-no-	-?-	boE	*
1625	4315	137	NGC 4850	14.23	0.58	0.65	10.24	cl	0.74	co	3.1	co	0.93	30	bar	-?Di	-no-	-?-	SB0	*
1844	4849	211		14.31	0.78	1.01	11.30	st	0.31	ex	7.1	co	0.44	5	-no	emDi	-no-	spH	SA0	*
1852	4866	212		14.88	0.67	0.77	11.32	cl	0.50	ex	1.4	co	0.56	12	bar?	-?Di	-no-	thD	SAB0	*
1925	5038	16		15.11	0.67	0.73	11.54	cl	0.72	co	4.1	co	0.89	60	-no	emDi	-no-	pec	SA0	*
2047	5341	221		14.98	0.47	0.55	10.44	cl	0.64	ex	4.9	co	0.95	74	bar	-?Di	-no-	-?-	SB0	
2085	5428			14.46	0.64	0.66	10.74	no	0.91	co	-0.8	co	0.90	9	-no	-no-	-no-	-?-	boE	*
2109	5495			14.51	0.47	0.51	9.94	no	0.79	ex	1.0	ex	0.88	15	-no	-?Di	-no-	-?-	unE	*
2134	5568		NGC 4816	12.66	1.40	1.44	12.74	no	0.79	re	-1.0	ex	0.74	20	-no	-no-	-no-	-?-	boEp	*
2220	5799			15.14	0.38	0.44	10.13	cl	0.69	ex	2.9	co	0.81	30	bar	-?Di	-no-	-?-	SB0	
2283	5999			14.03	1.00	1.09	12.13	no	0.78	ex	0.0	co	0.80	0	-no	-no-	-no-	-?-	unE	*

Notes to Table 4 (Coma galaxies)

0552: dust along the major axis. Type given in Paper I confirmed.
0718: two bumps on the major axis profile. Inner ring and lens. Type given in Paper I confirmed.
0750R: image of run 9 (see Paper I).
0750: 30 degree twist at r $\sim$ 10 arcsec on the V image. same twist in R, but image not deep enough for full confirmation. Type given in Paper I confirmed.
0754: type given in Paper I fully confirmed.
0828: E boxy outside r_e and possibly disky inside. In Paper I it is classified diE because the boxiness of the outer region is not detected with certainty, partly because of the presence of a companion galaxy at 15 arcsec in the minor axis direction.
0857: the bar suspected in Paper I is not detected in our better images.
0908: slightly boxy isophotes out to r_e, then slightly disky isophotes. Uncertain detailed classification.
0967: focus problems made the PSF slightly elongated in the NS direction and galaxy data inside 3 arcsec not usable.
1109: the bar suspected in Paper I is detected.
1154: asymmetric with respect to its major axis.
1432: classified SA0/a by morphologists, probably because of the low contrast spiP.
1564: ellipticity and c_4 profile unusual for a lenticular galaxy. It seems to be asymmetric.
1594: the better data with respect to Paper I allow us to classify it elliptical.
1625: the bar suspected in Paper I is detected.
1844: isophote twist toward GMP 1852. Type given in Paper I confirmed.
1852: isophote twist opposite to GMP 1844, bar suspected but nearby star slightly elongated in the same direction. Type given in Paper I confirmed.
1925: large isophote twist at low SuBr.
2085: rich in globular clusters[1]. The better data with respect to Paper I allow us to classify it elliptical.
2109: focus problems made the PSF slightly elongated in a direction orthogonal to the galaxy major axis. Data inside 4 arcsec are not usable. Also classified unE with CFH data of Paper I.
2134: rich in globular clusters. Its intensity profile obeys the $r^{-1.44}$ law from 1 arcsec out to 60 arcsec, putting this galaxy in the D class following Schombert (1987) and Tonry (1987). Classified as unE in Paper I from a slightly shallower image.
2283: the analysis is made difficult by the crowded field and a nearby saturated star.

[1] The expression "globular cluster" here and hereafter does not imply a group of dynamically bound stars, but a clump of light.

Description of Table 5 (Perseus galaxies)

(1) Zwicky name.
(2) Usual designation, such as NGC, UGC (Nilson 1976), T (Tiff 1976), BGP (Bucknell, Godwin & Peach 1979) and CR (Chincarini and Rood 1977) numbers.
(3) Flag for filter or observational material.
(4) Asymptotic magnitude.
(5) Logarithm of the effective radius, in units of arcsec.
(6) Logarithm of the semi major axis of the effective isophote, in units of arcsec.
(7) Mean SuBr inside the effective isophote, in mag arcmin^{-2}.
(8) to (12) Same as columns (9) to (13) of Table 4.
(13) Axis ratio in the envelope, i.e. at the isophote V=24.85 or R=24 mag arcsec^{-2}.
(14) to (20) Same as columns (15) to (21) of Table 4.

Note that a "(1)" in the table means that the parameter has not been computed because the night was not photometric, or because of the pan-chromaticity of the plate.

Table 5. Morphological description of early-type galaxies in Perseus

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
540-32	NGC 1175	V	13.81	0.90	0.92	11.41	no	0.92	ex	-0.8	ex	0.92:	15:	-no	-no-	-no-	-no	boE	*
540-33	NGC 1177	V	12.52	1.04	1.19	10.79	st	0.27	ex	-7.2	co	0.30:	0	-no	emDi	-no-	thD	SA0	*
540-41		V	14.28	0.86	0.94	11.66	st	0.62	co	5.3	co	1.0	20	bar	emDi	-no-	spH	SB0	*
540-46	UGC 2559	R	(1)	0.95	1.03	(1)	st	0.39	ex	5.0	ex	(1)	10	bar	-?Di	-no-	-?-	SB0	*
540-48		V	14.41	0.56	0.66	10.31	st	0.52	ex	3.0	ex	0.63	9	-no	miDi	-no-	thD	SA0	
540-51		V	14.10	0.77	0.83	11.06	st	0.58	ex	0.0	re	0.65	25	bar	-?Di	-no-	thD	SB0	
540-56		R	(1)	–	–	(1)	st	0.39	ex	7.0	ex	(1)	3	-no	miDi	-no-	thD	SA0	
540-57		V	13.55	0.78	0.84	10.54	no	0.62	ex	-2.0	ex	0.70	10	-no	-no-	-no-	-?-	boE	*
540-59		R	(1)	0.72	0.78	(1)	st	0.46	ex	5.6	ex	(1)	12	bar	-?Di	-no-	thD	SB0	
540-62		V	13.40	0.74	0.82	10.22	no	0.67	ex	-1.0	co	0.76:	0	-no	-no-	-no-	spH	boE	
540-73	CR 6	plate	(1)	–	–	(1)												SA0	*
540-74	BGP 37	R	(1)	0.75	0.80	(1)	st	0.75	co	0	co	(1)	3	-no	–	-no-	thD	SA0	*
540-74	BGP 37	plate	(1)	0.76	0.83	(1)	ft	0.85	co	0	co	(1)	10	-no	–	-no-	-?-	SA0	*
540-76		R																SA0	*
540-80		plate	14.38	0.81	0.89	11.55	st	0.75	ex	0	co	0.75	25	bar	-?Di	-no-	-?-	SB0	
540-81		R																SA0	*
540-83	BGP 34	plate	(1)	–	–	(1)	cl	0.23	ex	9.0	ex	(1)	0	-no	emDi	-no-	thD	SA0	
540-85	CR 15	2 V images	13.91	0.68	0.73	10.40	no	0.72	co	0.3	co	0.76	3	-no	-no-	-no-	-?-	diE	
540-89	CR 22	V	14.06	0.88	1.03	11.54	cl	0.42	ex	3.0	ex	–	15	-no	–	-no-	-?-	SA0	*
540-106		V	14.24	0.58	0.73	10.25	st	0.32	ex	6.1	ex	–	10	-no	emDi	spiP	-?-	S	*
540-114		R	(1)	–	–	(1)	st	0.31	ex	8.3	ex	(1)	0	-no	miDi	-no-	thD	SA0	*
540-114		plate	(1)	0.72	0.88	(1)	st	0.35	ex	6.9	ex	(1)	0	-no	miDi	-no-	exD	SA0	*

541-12			R	(1)	0.71	0.86	(1)	st	0.31	ex	8.1	ex	(1)	2	-no	emDi	-no-	spH	SA0	
541-14			R	(1)	0.93	1.04	(1)	st	0.56	ex	5.2	ex	(1)	25	bar	-?Di	-no-	spH	SB0	
541-15S	UGC 2755		V	(1)	0.97	0.99	(1)	ft	0.75	ex	2.0	ex	(1)	60	bar	-?Di	-no-	-?-	SB0	*
541-16N			V	14.19	0.90	1.08	11.79	cl	0.42	ex	0.5	ex	–	3	-no	miDi	-no-	thD	SA0	*
541-16S			V	14.10	0.60	0.62	10.19	no	0.75	ex	-1.8	co	–	40	bar	-?Di	-no-	-?-	SB0	*
	BGP 41		R	(1)	0.74	0.81	(1)	cl	0.70	ex	2.0	ex	(1)	12	bar	-?Di	-no-	spH	SB0	
	T 40	2 V images		14.31	0.75	0.80	11.17	st	0.78	ex	1.7	co	0.86	5	-no	emDi	-no-	spH	SA0	

Notes to Table 5 (Perseus galaxies)

T40: the identification of Tiff 40 is doubtful. The observed galaxy is the nearest one to the Tiff 40 coordinates. A brighter (spiral) galaxy is 4 arcmin SE, which is more likely Tiff 40, if we believe Kent & Sargent's (1983) classification (S).
540-32: companion of NGC 1177, roundish.
540-33: peanut shaped SA0.
540-41: face on.
540-46: the small field of view did not allow us to image the whole envelope.
540-57: there is a bump on the major axis SuBr profile at V=23 mag arcsec^2.
540-73: this galaxy is 19 arcsec from a very bright star, preventing the detailed structural analysis. However, bulge and disk are clearly visually detected as a change of axis ratio and as a bump on the major axis profile, leading to our estimated type. The galaxy is edge-on.
540-74: our morphological type fully confirms that of Poulain, Nieto & Davoust (1992).
540-76: strong, but smooth, dust lane on major axis. A second faint dust lane is present with an inclination of about 10 degrees with respect to the galaxy major axis 10 arcsec Southward.
540-81: dust just in the inner part of this galaxy observed near the CCD's edge.
540-89: a very brigh star 20 arcsec from the galaxy center perturbs the isophotal analysis at that radius. e_4 never dominates the Fourier terms, f_4 asymmetry.
540-106: almost edge-on, a bit S-shaped, asymmetric.
540-114: the c/a profile starts to rise at fainter SuBr than sampled by plate, thus explaining the difference in the envelope classification.
541-15S: face on.
541-16N: the galaxy Zw 540-16S and nearby stars prevented us from measuring the shape of this galaxy's envelope.
541-16S: the galaxy 540-16N makes it impossible to measure the SuBr profile at $r > 12$ arcsec.