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ING Bibliography and Analysis 2000 – 2001

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1. The Search

An important metric of the the success of ING telescopes is the publication rate in refereed journals and for this reason this "ING Bibliography" is updated on a yearly basis. Traditionally this bibliography has been compiled by visually scanning all articles in many journals and identifying those which make use of data from our telescopes. However most journals are now published electronically and often have quite sophisticated search engines associated with them and it is therefore timely to investigate if this bibliographic search might be performed with the help of these facilities.

Before reporting on the results of this exercise, it is worth commenting on and clarifying the selection process. To some extent this assessment is subjective since it is not always clear what constitutes *making use of data from our telescopes*. In principal and in general a paper should make *direct use* of observations in order to qualify. Papers which refer to data presented in earlier papers (derivative papers) are not counted.

One of the first decisions to make is that of choosing which journals to scan for ING articles. In the past this has been done somewhat arbitrarily, being limited mainly by staff effort. However when we analyse ING publications for the five years between 1995 and 1999 inclusive it can be seen that more than 95% of articles are published in a small number of core journals. These core journals consist of the British journal MNRAS, the American journals ApJ, AJL, ApJS, AJ and PASP, plus the European journal A&A (including the now defunct A&AS). We also include Nature and Science as core journals due to the perceived high impact of these journals. For example the average percentage of ING publications from the WHT in this period was 97.0%, with a low of 94.5% and a high of 99.0%. Journals making up the remainer of publications are widely spread among such journals as Icarus, New Astronomy and Astrophysics and Space Science to name a few.

Abstract services like NASA ADS allow searches in almost all astronomy refereed journals but such a service doesn't scan paper texts and therefore many papers are missed (see for instance the problems found by ESO when collecting their bibliography for 2001 in Grothkopf and Treumann, 2002, *Proceedings of LISA IV Conference*, 193, in press).

The bibliography for the years 2000 and 2001 were therefore compiled from only the core journals listed above. Online search engines (see Table 1) were used to select papers containing the following strings —in some cases part of it— in the paper text: William Herschel Telescope, WHT, Isaac Newton Telescope, INT telescope, Jacobus Kapteyn Telescope, JKT, Isaac Newton Group, Wide Field Survey, ING Wide Field Survey, INT Wide Field Survey, La Palma archive, ING archive, WFS archive, ING WFS and INT WFS, and the resulting list of papers visually inspected to ensure that they satisfied the selection criteria described above. The journal Astronomy & Astrophysics was found to have a search engine insufficient for our purposes and this journal is still visually inspected.

For every reference we recorded the author list, title, journal, volume, first page, nationality of first author's institution, telescope and instrument. We suggest the following information is also recorded in future searchers: nationality of second author's institution, year data taken, a subject code (see for instance the codes used by Benn and Sánchez, 2001, *PASP*, **113**, 385) and if possible the original observing programme.

Publication	**Search tool**
UC Journals (ApJ, ApJL, ApJS, PASP, AJ)	http://www.journals.uchicago.edu/ApJ/search.html
MNRAS	http://www.blackwell-synergy.com/servlet/useragent?func=showSearch&type=advanced
A&A (A&A, A&A Letters)	Visual inspection of print edition (online search will be implemented in early 2004)
Nature	http://www.nature.com/dynasearch/app/dynasearch.taf?
Science	http://www.sciencemag.org/search.dtl

Table 1. Search tools used in this study.

2. ING Bibliography

Below is the list of papers sorted by year and telescope. Nationality of first author's institution appear in brackets and the used instruments, if specified, in parenthesis. Note that if a paper makes use of more than one telescope we count that paper for each telescope. Also, concerning perceived nationality we use the nationality of the first author's institution although in a few cases two institutions are credited. Similarly, if a paper makes use of more than one instrument, that paper is counted against each instrument.

2000

WILLIAM HERSCHEL TELESCOPE

1. W Aoki, J E Norris, S G Ryan, T C Beers, H Ando, "Detection of Lead in the Carbon-rich, Very Metal-poor Star LP 625-44: A strong Constraint on s-Process Nucleosynthesis at Low Metallicity", *Astrophys J*, **536**, 97. [Japan] (UES)

2. S Arribas, L Colina, K D Borne, "Merging Process and Tidal-induced Star Formation in the Ultraluminous Infrared Galaxy IRAS 08572+3915", *Astrophys J*, **545**, 228. [SP] (INTEGRAL)

3. D J Bacon, A R Refregier, R Alexandre, R S Ellis, "Detection of weak gravitational lensing by large-scale structure", *MNRAS*, **318**, 625. [UK] (PFC)

4. C del Burgo, E Mediavilla, S Arribas, "High-Ionization Clouds in the Circumnuclear Region of M31", *Astrophys J*, **540**, 741. [SP] (INTEGRAL)

5. P N Best, H J A Röttering, M S Longair, "Deep spectroscopy of distant 3CR radio galaxies: the data", *MNRAS*, **311**,1. [UK] (ISIS)

6. P N Best, H J A Röttering, M S Longair, "Ionization, shocks and evolution of the emission-line gas of distant 3CR radio galaxies", *MNRAS*, **311**, 23. [NL] (ISIS)

7. P N Best, H J A Röttgering, M D Lehnert, "More redshifts of powerful equatorial radio sources from the Best", Röttgering, Lehnert sample", *MNRAS*, **315**, 21. [NL] (ISIS)

8. D V Bowen, K C Roth, D M Meyer, J C Blades, "Interstellar and Circumstellar Optical and Ultraviolet Lines Toward SN 1998S", *Astron J*, **536**, 225. [UK, US] (UES)

9. G Cecil, L J Greenhill, C G DePree, N Nagar, A S Wilson, M A Dopita, I Pérez-Fournon, A L Argon, J M Moran,"The Active Jet in NGC 4258 and Its Associated Shocks", *Astrophys J*, **536**, 675. [US] (ISIS)

10. M Centurión, P Bonifacio, P Molaro, G Vladilo, "Chemical Evolution of Damped Lyα; Galaxies: The [S/ZN] Abundance Ratio at Redshift ≤2", *Astron J*, **536** , 540. [Italy] (ISIS)

11. L Colina, S Arribas, K D Borne, A Monreal, "Detection and Mapping of Decoupled Stellar and Ionized Gas Structures in the Ultraluminous Infrared Galaxy IRAS 12112+0305", *Astrophys J*, **533**, 9L. [SP] (INTEGRAL)

12. E Corbett, "Spectropolarimetry of broad Hα; lines in radio galaxies: constraints on the geometry of the broad-line and scattering regions", *MNRAS*, **319**, 685. [UK] (ISIS)

13. E A Corbett, A Robinson, D J Axon, J H Hough, "A Seyfert-like nucleus concealed in BL Lacertae?", *MNRAS*, **311**, 485. [UK] (ISIS)

14. H J Mc Cracken, N Metcalfe, T Shanks, A Campos, J P Gardner, R Fong, "Galaxy number counts - IV. Surveying the Herschel Deep Field in the near-infrared", *MNRAS*, **311**, 707. [UK] (ISIS, IDS)

15. H J Mc Cracken, T Shanks, N Metcalfe, R Fong, A Campos, "Galaxy clustering in the Herschel Deep Field", *MNRAS*, **318**, 913. [UK] (PFC, INT PF)

16. E Daddi, A Cirratti, L Pozzetti, H Hoekstra, HJA Röttering, A Renzini, G Zamorani, F Mannucci, "Detection of strong clustering of extremely red objects: implications for the density of z>1 ellipticals", *Astron Astrophys*, **361**, 535. [Italy] (PFC)

17. L Dessart, P A Crowther, D John Hiller, A J Willis, P W Morris, K A van der Hucht, "Quantitative analysis of WC stars: constraints on neon abundances from ISO-SWS spectroscopy", *MNRAS*, **315**, 407. [UK, NL] (ISIS, IDS)

18. A I Díaz, M Castellanos, E Terlevich, M Luisa García-Vargas, "Chemical abundances and ionizing clusters of HII regions in the LINER galaxy NGC 4258", *MNRAS*, **318**, 462. [SP] (ISIS)

19. N G Douglas, J Gerssen, K Kuijken, M R Merrifield, "Using slitless spectroscopy to study the kinematics of the planetary nebula population in M94", *MNRAS*, **316**, 795. [NL] (ISIS)

20. S P S Eyres, M F Bode, T J O'Brien, S K Watson, R J Davis, "The remnant of Nova Cassiopeiae 1993 (V705 Cassiopeiae)", *MNRAS*, **318**, 1086. [UK] (ISIS)

21. A M N Ferguson, J S Gallagher, R F G Wyse, "On the nature of andromeda IV", *Astron J*, **120**, 821. [UK] (ISIS, WFC)

22. N M Förster Schreiber, "Moderate-resolution near-infrared spectroscopy of cool stars: a new K-band library", *Astron J*, **120**, 2089. [Germany] (3D)

23. O Fuentes-Masip, H O Castañeda, C Muñoz-Tuñón, "Star-forming Regions in the Irregular Galaxy NGC 4449: Determination of Their Integrated Parameters", *Astron J*, **119**, 2166. [SP] (TAURUSII)

24. O Fuentes-Masip, C Muñoz-Tuñón, "On the size and luminosity versus velocity dispersion correlations from the giant HII regions in the irregular galaxy NGC 4449", *Astron J*, **120**, 752. [SP] (TAURUSII)

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Pedersen, B Margon, E W Deutsch, M Metzger, L Armus, S Klose, B Stecklum, "Evidence for a Supernova in Reanalyzed Optical and Near-Infrared Images of GRB 970228", *Astrophys J*, **536**, 185. [NL] (PFC, INT PF, JKT CCD)

26. J Gerssen, K Kuijken, M R Merrifield, "Disc heating in NGC 2985", *MNRAS*, **317**, 545. [NL] (ING archive: ISIS and Aux)

27. C D Gill, T J OBrien, "Hubble Space Telescope imaging and ground-based spectroscopy of old nova shells - I. FH Ser, V533 Her, BT Mon, DK Lac and V476 Cyg", *MNRAS*, **314**, 175. [UK] (ISIS)

28. G Gómez, R López, "The Canarias Database of Nearby Type II Supernovae", *Astron J*, **120**, 367. [SP] (ISIS, IDS)

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31. M A Guerrero, L F Mirando, A Manchado, R Vázquez, "The triple-shell structure and collimated outflows of the planetary nebula NGC 6891", *MNRAS*, **313**, 1. [SP] (UES)

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33. D H Hughes, M J Kukula, J S Dunlop, T Boroson,"Optical off-nuclear spectra of quasar hosts and radio galaxies", *MNRAS*, **316**, 204. [UK] (ISIS)

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43. M Magliocchetti, S J Maddox, J V Wall, C R Benn, G Cotter, "The redshift distribution of FIRST radio sources at 1mJy", *MNRAS*, **318**, 1047. [UK] (AF2)

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45. E L Martín, W Brandner, "Membership and Multiplicity among Very Low Mass Stars and Brown Dwarfs in the Pleiades Cluster", *Astrophys J*, **543**, 299. [US] (ISIS)

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51. E Mediavilla, M Serra-Ricart, A Oscoz, L Goicoechea, J Buitrago, "Spectroscopy of the Lens Galaxy of Q0957+561A,B: Implications

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53. L Michaille, A D Cañas, J C Dainty, J Maxwell, T Gregory, J C Quartel, F C Reavell, R W Wilson, N J Wooder, "A laser beacon for monitoring the mesospheric sodium layer at La Palma", *MNRAS*, **318**, 139. [UK] (LGS)

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55. I Negueruela, P Reig, J S Clark, "The nature of IWGA J1958.2+3232: A new intermediats polar", *Astron Astrophys*, **354**, L29. [SP] (ISIS)

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58. Y Pavlenko, M R Zapatero Osorio, R Rebolo, "On the interpretation of the optical spectra of L-type dwarfs", *Astron Astrophys*, **355**, 245. [Ukraine] (ISIS)

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64. M Rozas, A Zurita, J E Beckmann, D Pérez, "The ionized gas in the spiral galaxy NGC 3359", *Astron Astrophys Suppl*, **142**, 259. [SP] (TAURUSII)

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66. A D Schwope, M S Catalán, A Metzner, R C Smith, D Steeghs, "Multi-epoch Doppler tomography and polarimetry of QQ Vul", *MNRAS*, **313**, 533. [Germany] (ISIS)

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[UK] (JKT CCD)

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3. Analisys

3.1. Telescope Paper Count

Our initial results for 2000 indicated a fall in the total number of journals compared with the previous few years, with 162 being found compared to the typical total of more than 220 found for the previous four years. The downturn in the publication rate for 2000 was confirmed in 2001 with a total of 162 articles produced from ING telescopes (see Table 2 for a breakdown of these numbers).

	WHT	INT	JKT	Total
1984	—	1	—	1
1985	—	10	3	13
1986	—	24	8	32
1987	—	36	16	52
1988	5	52	12	69
1989	15	58	15	88
1990	37	54	26	117
1991	39	63	19	121
1992	42	56	25	123
1993	55	70	30	155
1994	78	63	44	185
1995	90	81	29	200
1996	100	84	52	236
1997	113	77	35	225
1998	118	72	38	228
1999	115	78	46	239
2000	78	53	31	162
2001	91	46	25	162
Total	976	978	454	2408

Table 2. Number of refereed papers per year and telescope.

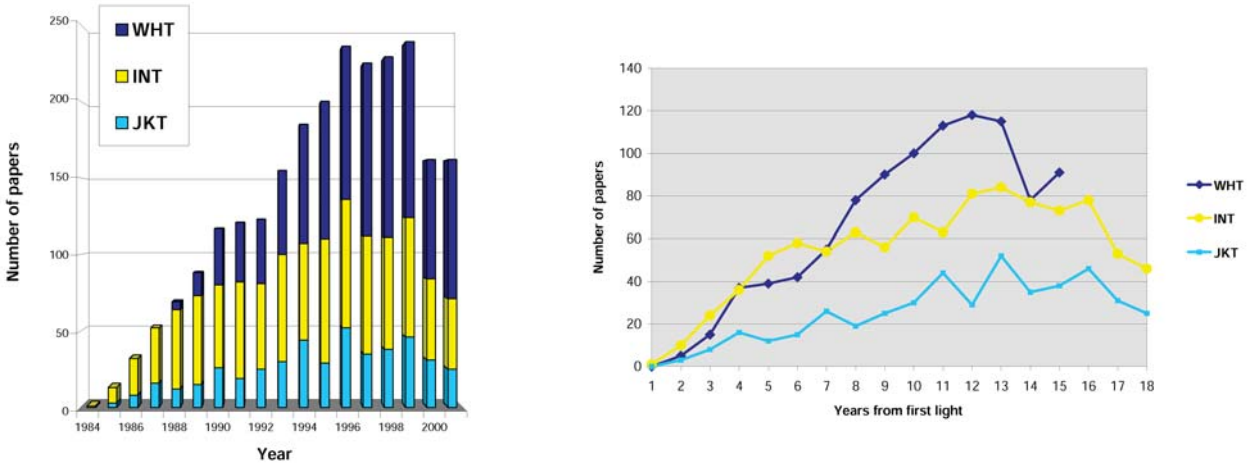

Figure 1. Left: Total number of ING refereed papers per year and telescope. Right: Number of ING refereed papers ublications per telescope since first light.

3.2. Use of Instrument Data

Table 3 shows the use of instrument data in 2000 and 2001. Some moderate demographical changes are apparent in these numbers. First of all the fraction of papers attributed to ISIS from 1998 until 2001 (the years for which this information exists) varied from 39%, 50%, 56% to 40%. Clearly ISIS is still our most productive instrument by a long way. Over the same period the UES figures are 20%, 15%, 15% and 25% indicating the continuing strong demand for high resolution spectroscopy by our community and vindicating our goal of maintaining access to this option through our agreement with the TNG. Papers from INGRID made a welcome appearance in 2001 with a total of 4 papers being attributed to this instrument.

On the INT the papers are split very evenly between IDS and the WFC as might be expected from the split of observing time between these instruments, roughly 50-50. This highlights the need to effectively exploit bright time when the INT becomes a one instrument telescope with the WFC only. Interestingly the number of papers from visitor instruments on the WHT has increased from a few in previous years to 6 or 7 papers a year. It will be interesting and important to follow this trend in subsequent years.

	2000					2001				
	Papers	%	Nights 95-99	Eff. Nights 95-99	Papers/ Eff. Night	Papers	%	Nights 96-00	Eff. Nights 96-00	Papers/ Eff. Night
WHT										
ISIS	45	53.6	676.0	494.8	0.091	37	38.5	640.0	469.9	0.079
UES	14	16.7	327.4	237.4	0.059	23	24.0	293.4	212.7	0.108
PFC	5	5.9	131.0	96.4	0.052	6	6.3	137.0	101.3	0.059
AF2	2	2.4	89.5	66.8	0.030	5	5.2	100.5	75.3	0.066
INGRID	—	—	—	—	—	4	4.2	40.0	30.5	0.131
TAURUSII	8	9.5	97.0	70.4	0.114	1	1.0	83.0	60.0	0.017
INTEGRAL	3	3.6	34.0	24.5	0.122	3	3.1	52.0	38.2	0.078
OTHER-ING	2	2.4	255.6	182.7	0.001	8	8.3	195.6	138.1	0.058
VISITOR	5	5.9	166.0	121.3	0.041	9	9.4	150.0	109.7	0.082
Total	84	100.0	1776.5	1294.9		96	100.0	1691.5	1235.7	
INT										
IDS	25	49.0	860.0	629.9	0.040	23	50.0	772	563.9	0.041
WFC	18	35.3	429.0	316.6	0.057	20	43.5	648	480.8	0.042
MUSICOS	2	3.9	85.0	63.4	0.031	1	2.2	89	66.4	0.015
OTHER-ING	6	11.8	306.0	222.6	0.004	2	4.3	175	124.3	0.016
VISITOR	0	0.0	81.0	59.6	0.000	0	0.0	93	68.6	0.000
Total	51	100.0	1761.0	1292.1		46	100.0	1777	1303.9	

Table 3. An approach to individual instrument paper productivity. If a paper makes use of more than one instrument, that paper is counted against each instrument.Commissioning nights were excluded and the remaining nights were reduced by that year average weather and technical downtime factors. The WFC was first offered in semester 97A, INTEGRAL in semester 98A and INGRID in semester 2000A. Papers based on archival data were also included.

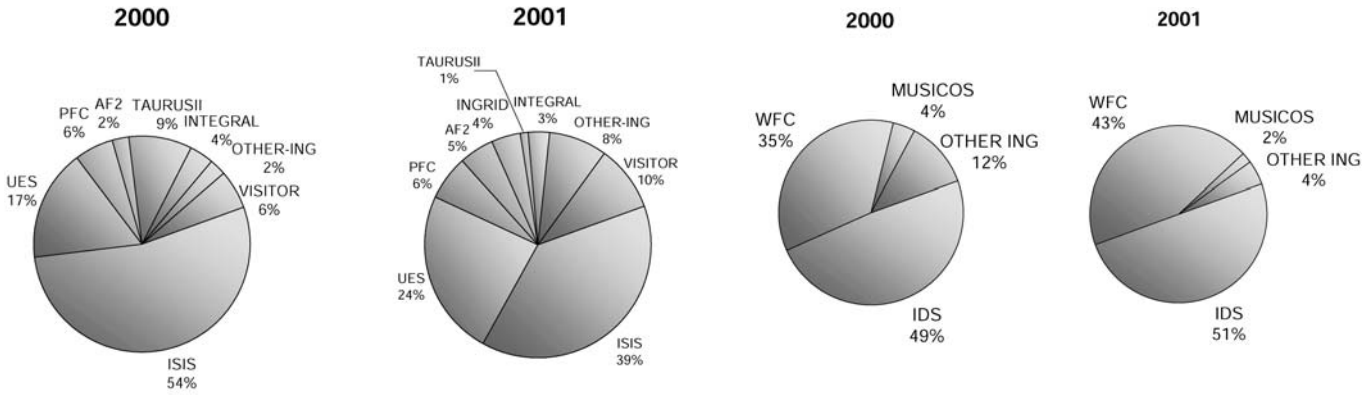

Figure 2. Left: Use of instrument data in WHT papers. Right: Use of instrument data in INT papers.

3.3 Nationality of First Author's Institution

Concerning the nationality of the first author's institute, there is little change, at least considering the fluctuations from year to year. The UK share is steady around 40%, the Spanish share increased to 25% in 2000 but in 2001 was back at its more normal 20%. The NL share also showed little systematic change.

	2000		2001	
	Papers	%	Papers	%
UK	67	39.0	79	44.9
SP	43	25.0	36	20.5
NL	15	8.7	14	7.9
OTHER	47	27.3	47	26.7
Total	172	100.0	176	100.0

Table 4. Paper authorship in 2000 and 2001. If the first author's institutions are from several countries, then that paper is counted against each country.

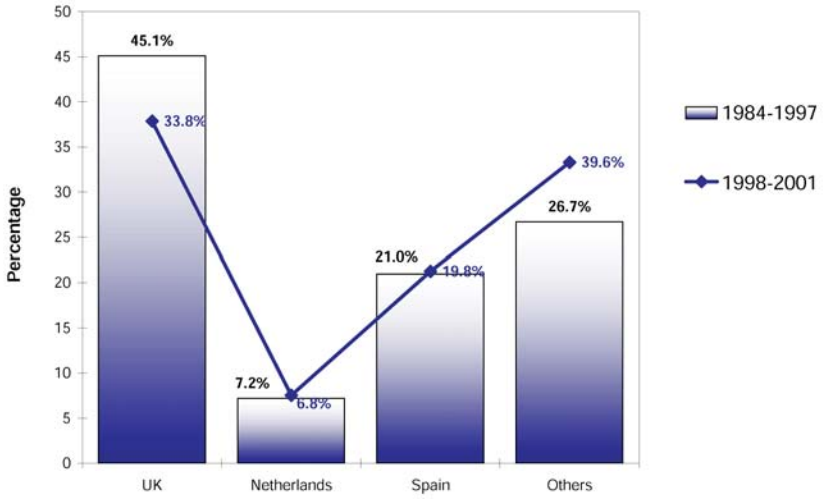

Figure 3. Evolution of paper authorship.

3.4 Publication Rate by Journal

An analysis of the results shown in Table 5 indicated that the drop in the paper count in 2000 was due largely to a fall in the ApJ publication rate for 2000 by a factor of about 2. An immediate concern was that the electronic search process was missing articles. However we used our search procedures for the year 1997 as a check and found 34 ApJ papers from the WHT in this year compared with a total of 41 in the published bibliography. However on inspecting these two lists of papers we found 3 of the previous list were in fact papers from AJ, not ApJ, an additonal 7 from this list were papers which were either based on archive material (1 paper), derivative papers (3) or papers not based on WHT data at all (3). Of the remaining 31 papers, all were in our new revised list however our revised list contained an additional 3 papers not found in the initial search. A further check was enforced due to an error found in the MNRAS search engine when it was realized on checking the MNRAS publications that 50% of the 2001 papers did not contain any reference to our telescopes. This was traced to an error in the indexing software in the search engine, which is now corrected, but as a check the 2001 issues of MNRAS were scanned manually and both the manual and electronic (revised) searches agreed. We are therefore confident that the electronic selection and visual checking procedure works reliably.

	MNRAS	*ApJ*	*ApJ Letters*	*ApJ Suppl*	*AJ*	*PASP*	*A&A*	*A&A Letters*	*A&A Suppl*	*Nature*	*Science*
2000											
WHT	37	12	1	0	11	1	13	2	1	0	0
INT	20	3	0	1	7	2	13	0	6	0	1
JKT	10	2	0	1	2	1	7	0	7	1	0
Total	67	17	1	2	20	4	33	2	14	1	1
2001											
WHT	36	24	9	2	4	0	15	1	—	0	0
INT	19	2	6	1	3	0	14	0	—	1	0
JKT	6	3	1	2	3	0	10	0	—	0	0
Total	61	29	16	5	10	0	39	1	—	1	0

Table 5. Papers per scanned journal in 2000 and 2001.

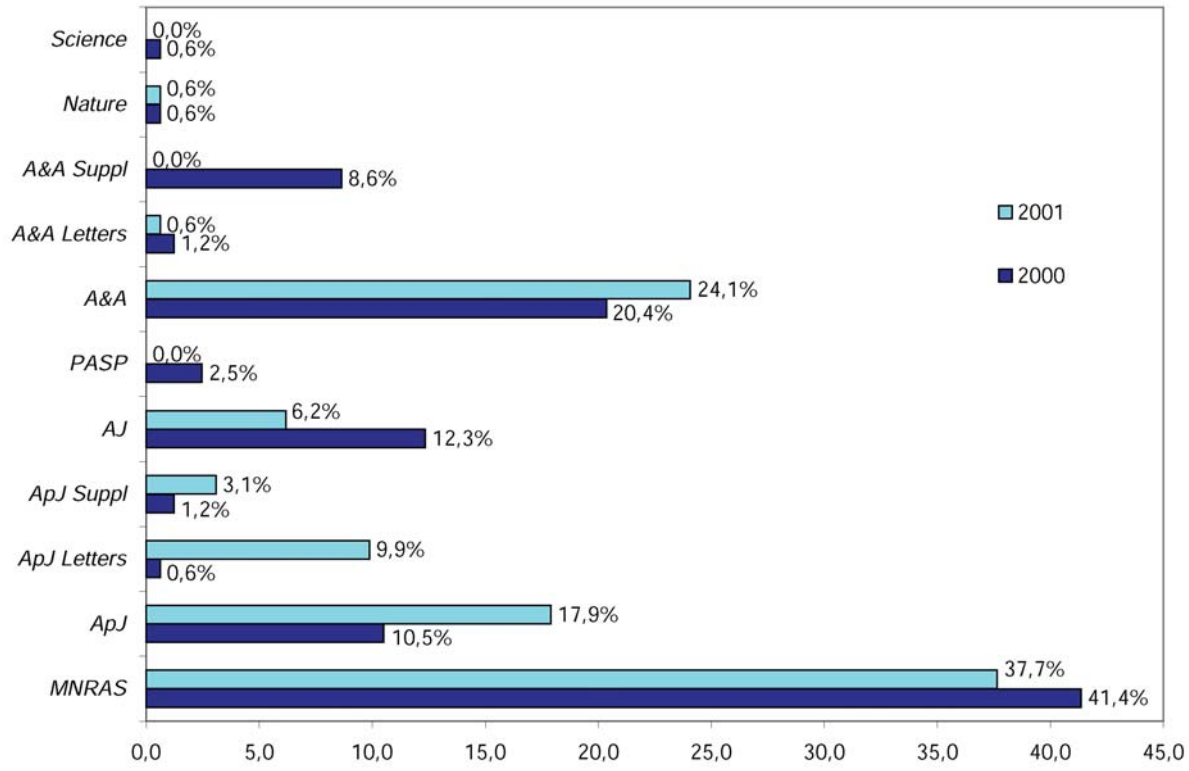

Figure 4. Percentages of papers per journal and year.

4. Conclusions

Finally the most startling change is the decrease in the total number of papers published. As discussed above we have checked our selection methods and believe them to be sound. There is some evidence that selection criteria were not so stringent in previous years resulting in some overestimation of publication rates, however this cannot explain the trend observed in 2000 and 2001 (a 30% decrease in publication rates). While it was impossible to do a complete analysis of publication trends in the journals surveyed a general impression gained from the manual/visual checks performed is that most of the observational papers deal with 8m class telescopes. It is plausiable then to suggest that we are seeing an 8m effect. Encouragingly, ING telescopes continue to play an important role (see Benn and Sánchez, 2001, *PASP*, **113**, 385) and in this respect we note the impact which the Wide Field Camera has had with an important paper in Nature concerning the merger of a satellite galaxy M31 (Ibata et al, 2001, *Nature*, **412**, 49) and in Science concerning the discovery of isolated planetary mass objects outside the Solar System (Zapatero-Osorio et al, 2000, *Science*, **290**, 103).

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