

**ING Bibliography and Analysis 2002-2011**

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# 1. Introduction

An important metric of the success of ING telescopes is the count of papers published in refereed journals. Before reporting on the results of this exercise, it is worth commenting on and clarifying the selection process.

One of the first decisions to make is that of choosing which journals to scan for ING articles. We have restricted the search to the core journals in which most of the ING papers are published, ie. the British journal *MNRAS* (including *Letters*), the American journals *ApJ*, *ApJ Letters*, *ApJ Suppl*, *AJ* and *PASP*, plus the European journal *A&A* (including *Letters*), although many other publications have appeared elsewhere, notably in workshop and conference proceedings and in PhD theses. We also searched *Nature* and *Science* as due to the perceived high impact of these journals.

The bibliography for the years 2002 to 2011 were therefore compiled from only the core journals listed above. Online search engines were used to select papers containing a set of strings in the paper text:

"William Herschel Telescope" OR "William Herschel Telescopes" OR "WHT" OR "Isaac Newton Telescope" OR "Isaac Newton Telescopes" OR "INT telescope" OR "Jacobus Kapteyn Telescope" OR "Jacobus Kapteyn Telescopes" OR "JKT" OR "ING Wide Field Survey" OR "INT Wide Field Survey" OR "La Palma archive" OR "ING archive" OR "Wide Field Survey" OR "Isaac Newton Group (ING) Archive" OR "WFS archive" OR "ING@WFS" OR "INT WFS" OR "Isaac Newton Group" OR "IPHAS OR La Palma" OR "Canary Islands" OR "WFC@INT" OR "INT/WFC"

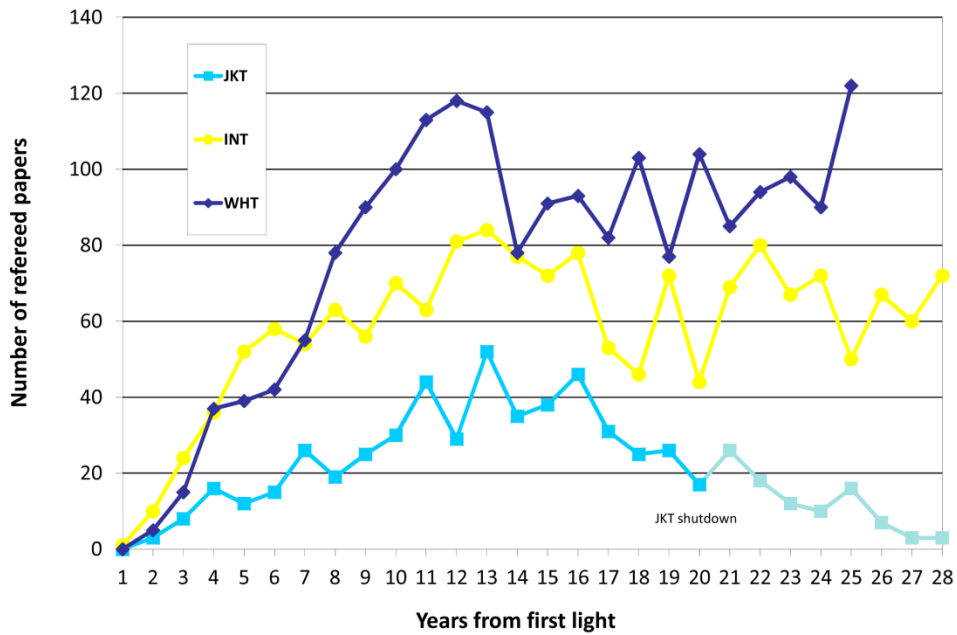
Papers were manually searched for proofs of having used ING data. To some extent this assessment is subjective since it is not always clear what constitutes making use of data from our telescopes. In principal and in general a paper should make direct use of observations in order to qualify. Papers which refer to data presented in earlier papers (derivative papers) are not counted.

For every paper the following information was recorded: author list, year of publication, title, journal name, volume, first page, nationality of first author's institution, telescope used and instrument. If the data came from one of the ING data archives then this was recorded in the instrument field as follows: "archive" refers to the ING archive, "WFS" refers to the INT Wide-Field Survey archive, and "IPHAS" refers to the archive of the INT/WFC photometric H $\alpha$  survey of the northern Galactic plane. If the observations were obtained as part of an ING service or override proposal, then this is shown as "service" or "O/R" respectively in the instrument field.

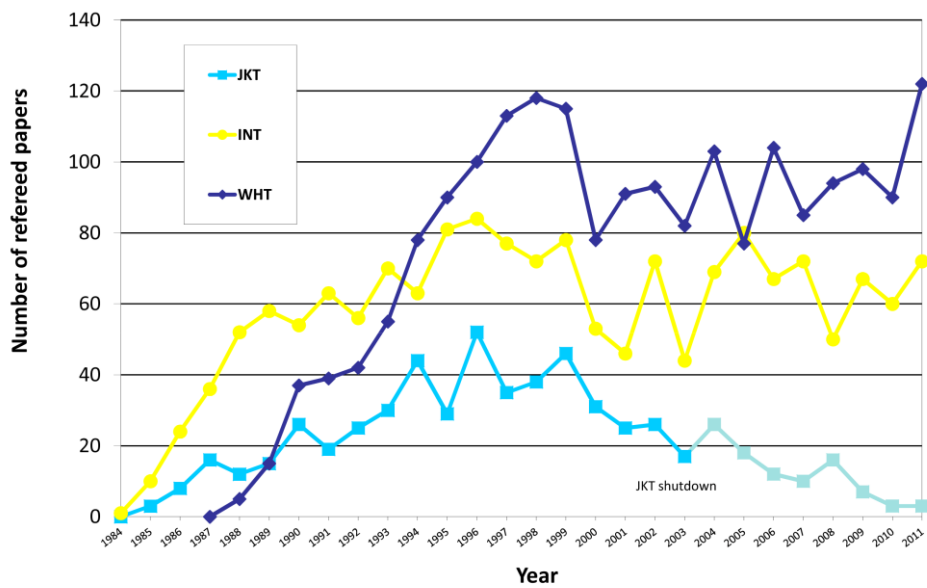
Appendix A shows the bibliography compiled this way. Papers are sorted by year and telescope and in alphabetical order of the first author. Nationalities appear in brackets and instruments in parentheses. What follows is an analysis of this bibliography. Note that if a paper makes use of more than one telescope we count that paper for each telescope. Similarly, if a paper makes use of more than one instrument, that paper is counted against each instrument.

## 2. Analysis.

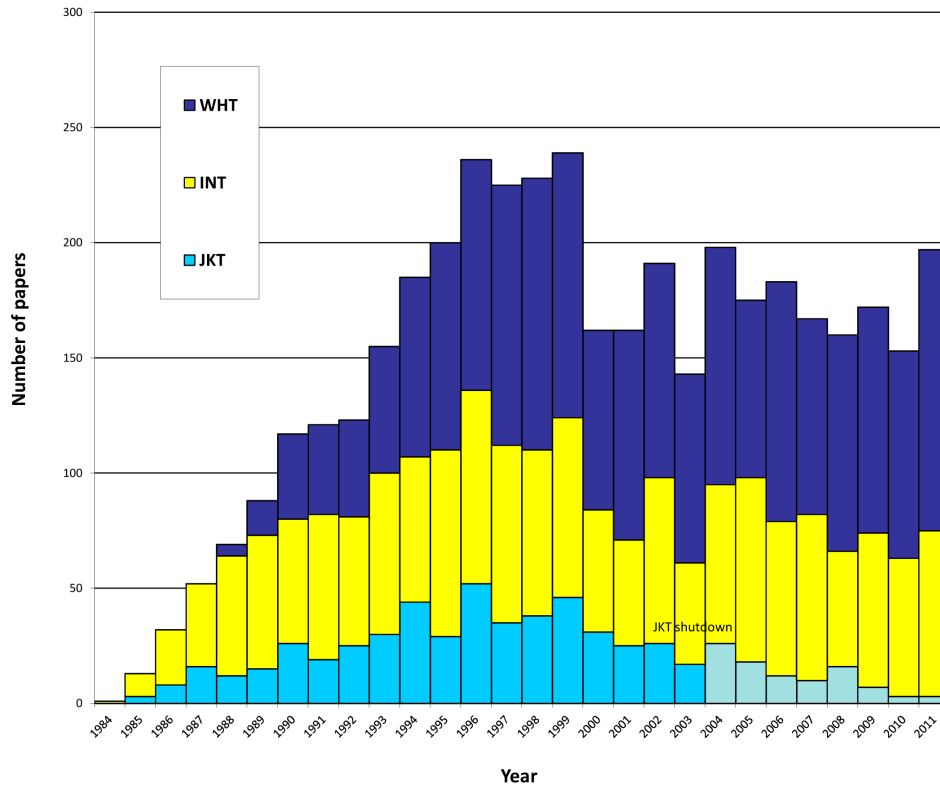
### 2.1. Paper counts.



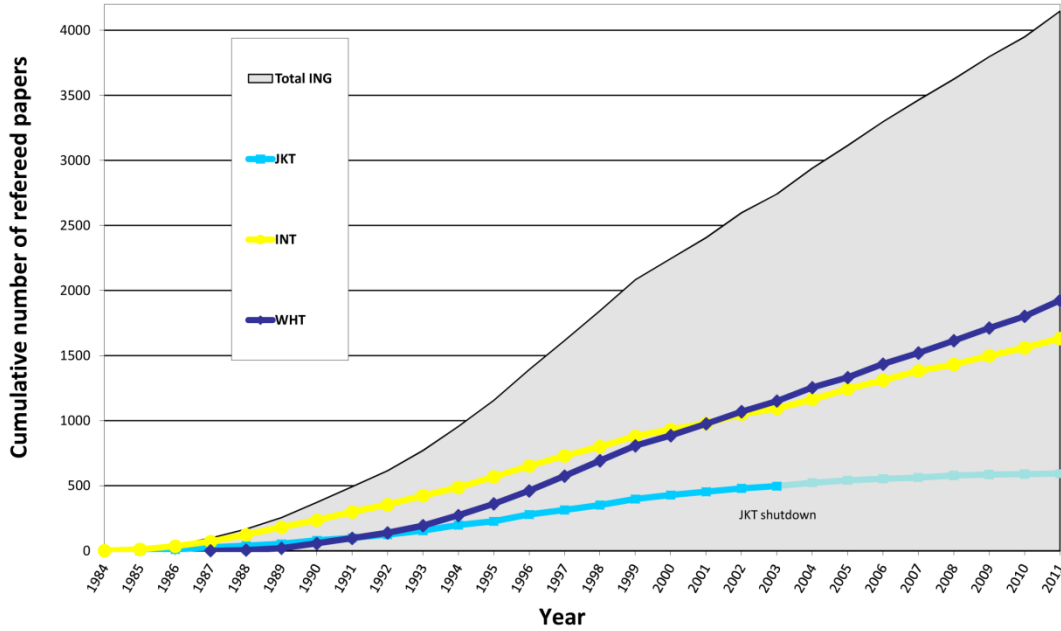
*Number of refereed papers per year from first light.*



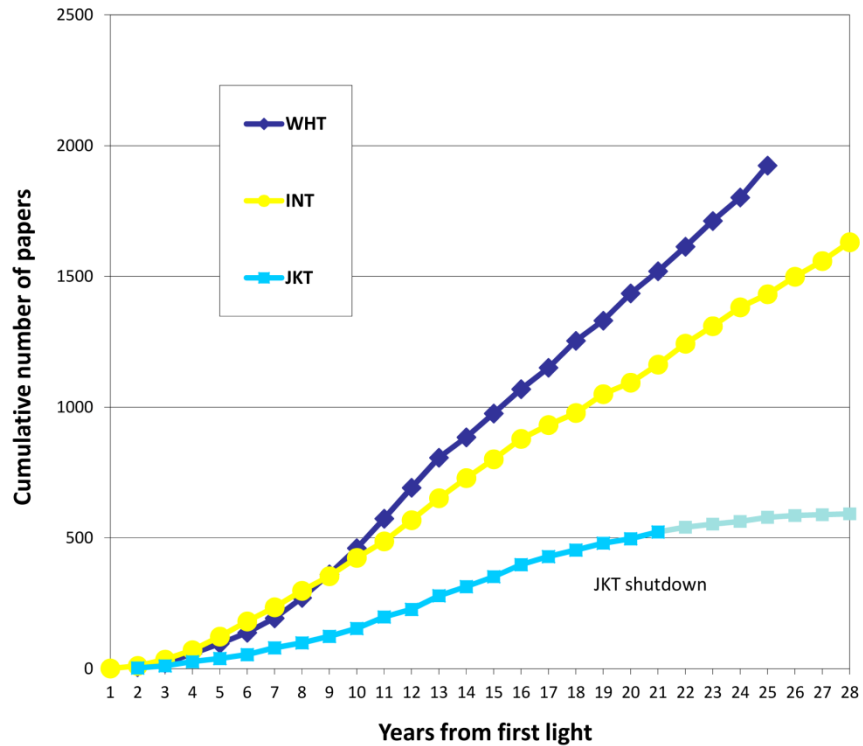
*Number of refereed papers per year.*



*Number of refereed papers per year.*



*Cumulative number of refereed published papers per year and telescope.*



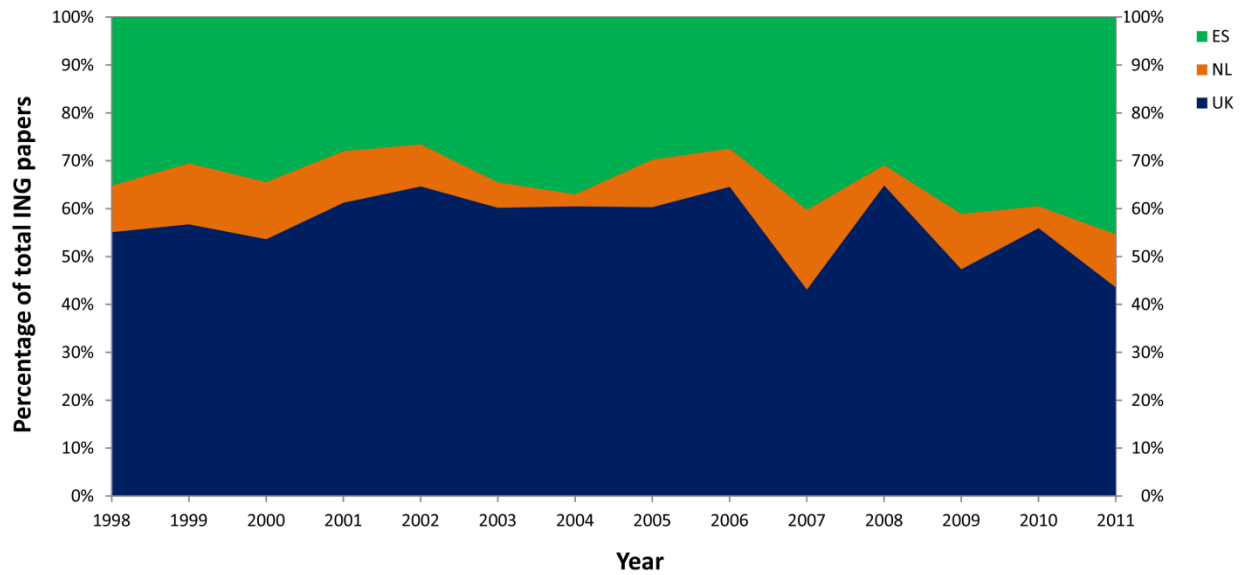
*Cumulative number of refereed papers per year from first light.*

Year	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

Year	WHT	INT	JKT	Total
2001	91	46	25	162
2002	93	72	26	191
2003	82	44	17	143
2004	103	69	26	198
2005	77	80	18	175
2006	104	67	12	183
2007	85	72	10	167
2008	94	50	16	160
2009	98	67	7	172
2010	90	60	3	153
2011	122	72	3	197
<b>Total</b>	<b>1924</b>	<b>1631</b>	<b>592</b>	<b>4147</b>

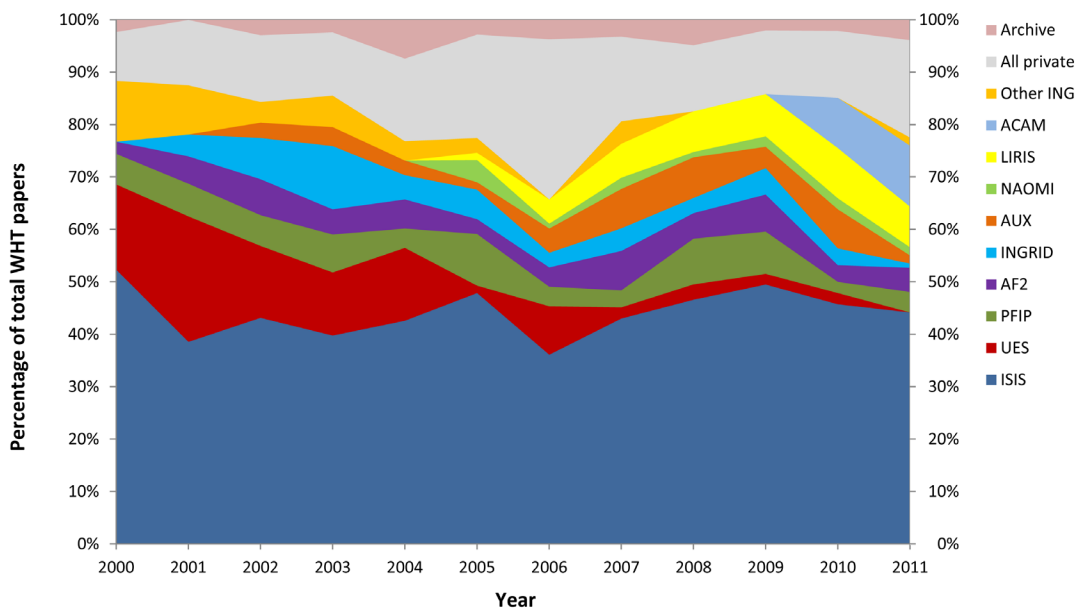
*Paper counts per telescope and year.*

## 2.2. Paper authorship.

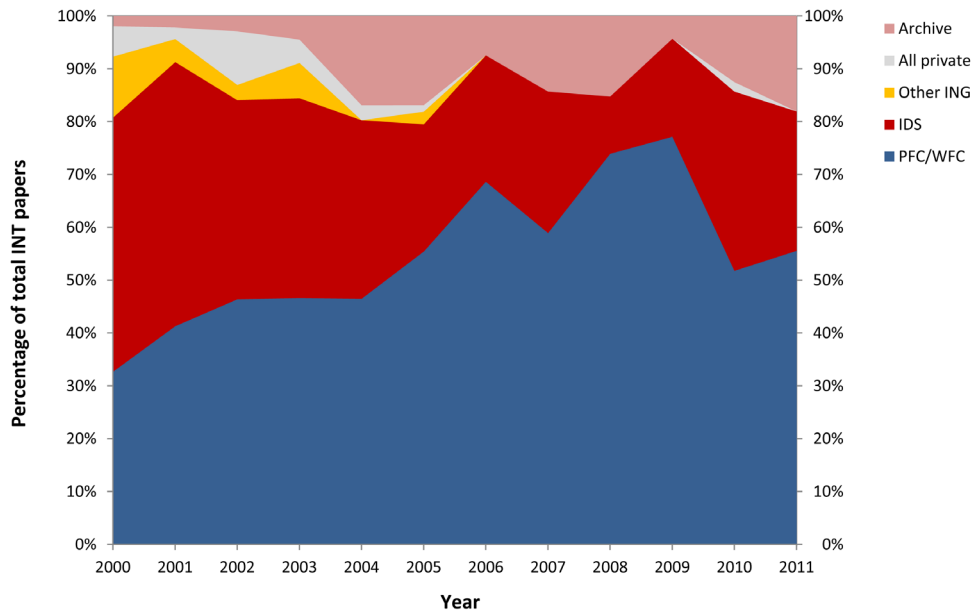


Nationality of first author's main institution in refereed papers that used data from the ING telescopes. Other nationalities contribute ~27% (1984-1997) and ~36% (1998-2011) to the total number of papers.

## 2.3. Paper instrument use.

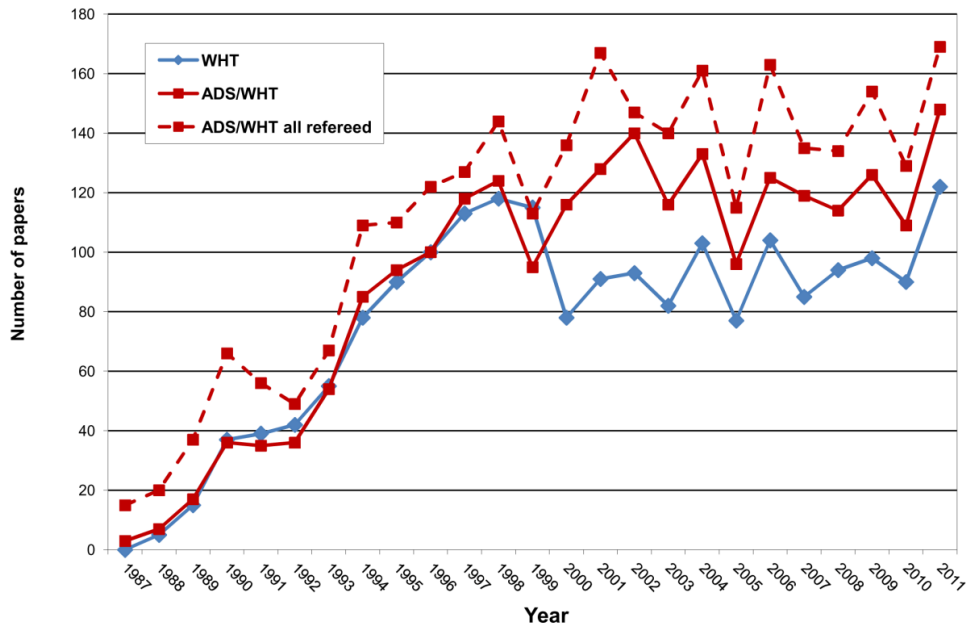


Use of instrument data in WHT's refereed papers (papers are counted as many times as used instruments). All private includes INTEGRAL. Archives means papers that use data retrieved from the ING Archive, and not included in the other categories. INGRID refers to when it was used without adaptive optics. NAOMI includes INGRID, OASIS and OSCA in combination with adaptive optics.



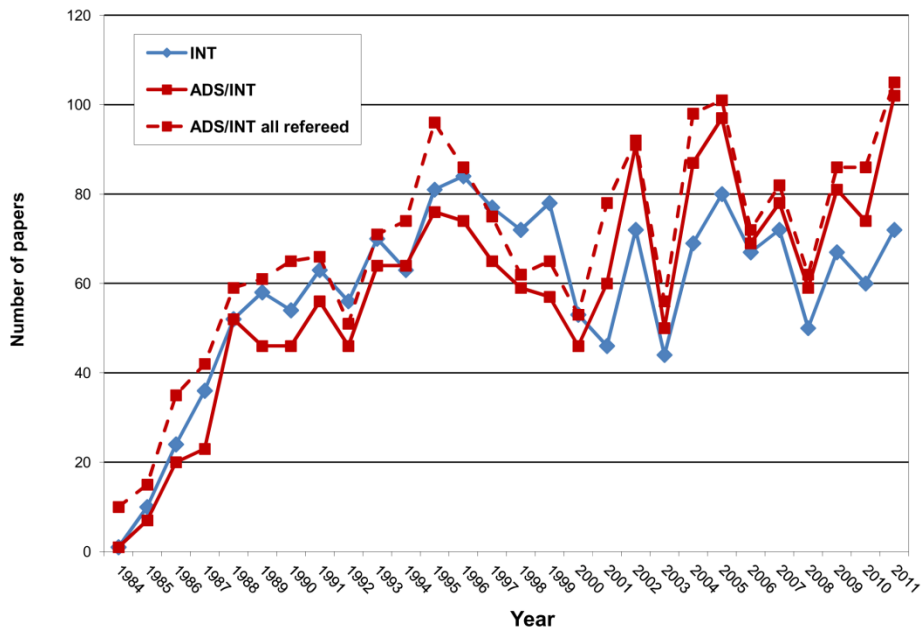
Use of instrument data in INT's refereed papers (papers are counted as many times as used instruments). The archival papers mostly use data from the WFC. All private includes the private instruments. Other ING includes other common-user instruments not listed individually.

## 2.4. Paper count check.

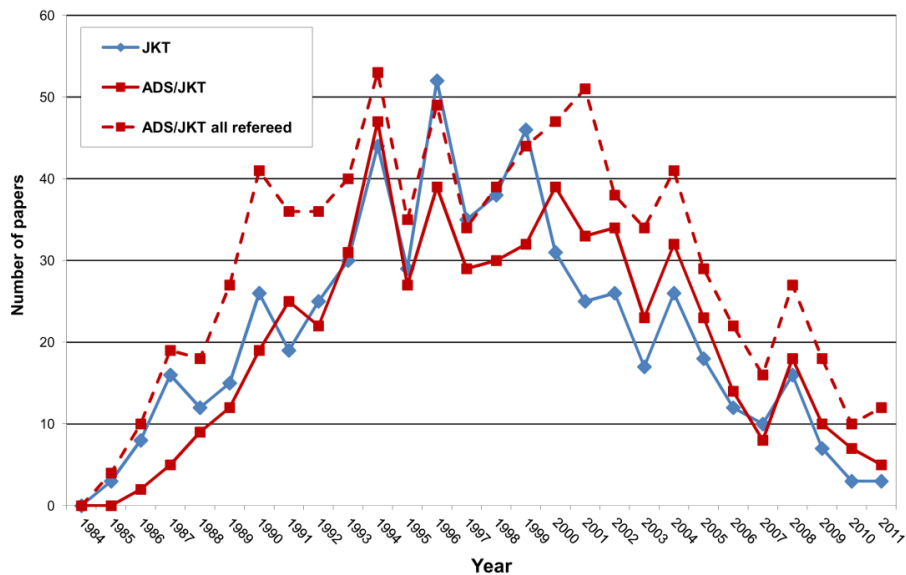


Paper counts by ING (blue) and retrieved from ADS Labs (red, <http://labs.adsabs.harvard.edu/fulltext/>) as a result of scanning the refereed journals listed below, and searching for a list of specific keywords: "William Herschel Telescope" OR "William Herschel Telescopes" OR "WHT". While the ING counts only include papers that make a direct use of the data, the ADS counts include all the papers that contain the searched keywords. The dashed line shows the ADS paper count but including all the refereed journals in the ADS database.





Paper counts by ING (blue) and retrieved from ADSLabs (red, <http://labs.adsabs.harvard.edu/fulltext/>) as a result of scanning the refereed journals listed below, and searching for a list of specific keywords: "Isaac Newton Telescope" OR "Isaac Newton Telescopes" OR "INT telescope". While the ING counts only include papers that make a direct use of the data, the ADS counts include all the papers that contain the searched keywords. The dashed line shows the ADS paper count but including all the refereed journals in the ADS database.



Paper counts by ING (blue) and retrieved from ADSLabs (red, <http://labs.adsabs.harvard.edu/fulltext/>) as a result of scanning the refereed journals listed below, and searching for a list of specific keywords: "Jacobus Kapteyn Telescope" OR "Jacobus Kapteyn Telescopes" OR "JKT". While the ING counts only include papers that make a direct use of the data, the ADS counts include all the papers that contain the searched keywords. The dashed line shows the ADS paper count but including all the refereed journals in the ADS database.

# Appendix 1. “ING Bibliography 2002-2011”.

## 2002

### William Herschel Telescope

1. C. Abia, I. Domínguez, R. Gallino, M. Brusse, S. Masera, O. Straniero, P. de Laverny, B. Plez, J. Isern, “s-Process Nucleosynthesis in Carbon Stars”, *Astrophys J*, **579**, 817. [ES] (UES).
2. V. L. Afanasiev, O. K. Sil’chenko, “Complex Formation History of the Lenticular Galaxies with Stellar Counterrotation: NGC 4138 and NGC 4550”, *Astron J*, **124**, 706. [RU] (SAURON+ING Archive).
3. S. Arribas, L. Colina, “INTEGRAL Field Spectroscopy of IRAS 15206+3342: Gas Inflows and Starbursts in an Advanced Merger”, *Astrophys J*, **573**, 576. [ES] (INTEGRAL).
4. R. Aznar Cuadrado, C. S. Jeffery, “Physical parameters for subdwarf B stars with composite spectra”, *Astron Astrophys*, **385**, 131. [UK] (ISIS).
5. M. Balogh, R. G. Bower, I. Smail, B. L. Ziegler, R. L. Davies, A. Gaztelu, A. Fritz, “Galaxy properties in low X-ray luminosity clusters at  $z=0.25$ ”, *MNRAS*, **337**, 256. [UK] (LDSS2, WFC).
6. C. M. Bayer-Kim, C. S. Crawford, S. W. Allen, A. C. Edge, A. C. Fabian, “The peculiar cooling flow cluster RX J0820.9+0752”, *MNRAS*, **337**, 938. [UK] (ISIS).
7. N. Bleach, J. H. Wood, B. Smalley, M. S. Catalán, “The measurement of rotational broadening in post-common-envelope binaries”, *MNRAS*, **336**, 611. [UK] (UES).
8. C. R. Benn, M. Vigotti, M. Pedani, J. Holt, K.-H. Mack, R. Curran, S. F. Sánchez, “High-redshift QSOs in the FIRST survey”, *MNRAS*, **329**, 221. [UK] (ISIS, IDS).
9. A. J. Benson, C. S. Frenk, R. M. Sharples, “The Luminosity Functions and Stellar Masses of Galactic Disks and Spheroids”, *Astrophys J*, **574**, 104. [US] (AF2).
10. J. N. Bleach, J. H. Wood, B. Smalley, M. S. Catalán, “Echelle observations of chromospheric activity in post-common-envelope binaries”, *MNRAS*, **335**, 593. [UK] (UES).
11. D. V. Bowen, M. Pettini, J. Chris Blades, “Ly-alpha Absorption around Nearby Galaxies”, *Astrophys J*, **580**, 169. [UK] (ISIS).
12. F. Bresolin, R.-P. Kudritzki, D. J. Lennon, S. J. Smartt, A. Herrero, M. A. Urbaneja, J. Puls, “Space Telescope Imaging Spectrograph Ultraviolet Spectroscopy of Early B Supergiants in M31”, *Astrophys J*, **580**, 213. [US] (ISIS).
13. C. de Breuck, W. van Breugel, S. A. Stanford, H. Rottgering, G. Miley, D. Stern, “Optical and Near-Infrared Imaging of Ultra Steep-Spectrum Radio Sources: The K-z Diagram of Radio-Selected and Optically Selected Galaxies”, *Astron J*, **123**, 637. [FR] (PFIP).
14. C. M. Bridge, M. Cropper, Gavin Ramsay, M. A. C. Perryman, J. H. J. de Bruijne, F. Favata, A. Peacock, N. Rando, A. P. Reynolds, “STJ observations of the eclipsing polar HU Aqr”, *MNRAS*, **336**, 1129. [UK] (SCAM).
15. J. H. J. de Bruijne, A. P. Reynolds, M. A. C. Perryman, A. Peacock, F. Navata, N. Rando, D. Martin, P. Verhoeve, N. Christlieb, “Direct determination of quasar redshifts”, *Astron Astrophys*, **381**, L57. [NL] (SCAM2).
16. L. M., Cairós, N. Caon, B. García-Lorenzo, J. Vílchez, C. Muñoz-Tuñón, “Spectrophotometric Observations of Blue Compact Dwarf Galaxies: Markarian 370”, *Astrophys J*, **577**, 164. [ES] (INTEGRAL, IDS, JKT CCD).
17. D. Carter, B. Mobasher, T. J. Bridges, B. M. Poggianti, Y. Komiyama, N. Kashikawa, M. Doi, M. Iye, S. Okamura, M. Sekiguchi, K. Shimasaku, M. Yagi, N. Yasuda, “A Photometric and Spectroscopic Study of Dwarf and Giant Galaxies in the Coma Cluster. V. Dependence of the Spectroscopic Properties on Location in the Cluster”, *Astrophys J*, **567**, 772. [UK] (AF2).
18. M. Castellanos, A. I. Díaz, E. Terlevich, “A comprehensive study of reported high-metallicity giant H ii regions -I. Detailed abundance analysis”, *MNRAS*, **329**, 315. [ES] (ISIS).
19. L. Colina, R. G. Delgado, J. M. Mas-Hesse, C. Leitherer, “Detection of a Super Star Cluster as the Ionizing Source in the Low-Luminosity Active Galactic Nucleus NGC 4303”, *Astrophys J*, **579**, 545. [ES] (ISIS).
20. A. Collier Cameron, K. Horne, A. Penny, C. Leigh, “A search for starlight reflected from upsilon And’s innermost planet”, *MNRAS*, **330**, 187. [UK] (UES).
21. T. Contini, M. A. Treyer, M. Sullivan, R. S. Ellis, “Chemical abundances in a UV-selected sample of galaxies”, *MNRAS*, **330**, 75. [FR] (AF2).
22. G. Cotter, H. J. Buttery, S. Rawlings, S. Croft, G. J. Hill, P. Gay, R. Das, N. Drory, K. Grainge, W. F. Grainger, M. E. Jones, G. G. Pooley, R. Saunders, “Detection of a cosmic microwave background decrement towards a cluster of mJy radio sources”, *MNRAS*, **331**, 1. [UK] (ISIS).
23. C. S. Crawford, P. Gandhi, A. C. Fabian, R. J. Wilman, R. M. Johnstone, A. J. Barger, L. L. Cowie, “Multiwavelength observations of serendipitous Chandra X-ray sources in the field of A 2390”, *MNRAS*, **333**, 809. [UK] (PFIP+ING Archive).

24. P. D. Dobbie, F. Kenyon, R. F. Jameson, S. T. Hodgkin, N. C. Hambly, M. R. S. Hawkins, "A deep large-area search for very low-mass members of the Hyades open cluster", *MNRAS*, **329**, 543. [UK] (ISIS, JKT CCD).
25. N. G. Douglas, M. Arnaboldi, K. C. Freeman, K. Kuijken, M. R. Merrifield, A. J. Romanowsky, K. Taylor, M. Capaccioli, T. Axelrod, R. Gilmozzi, J. Hart, G. Bloxham, D. Jones, "The Planetary Nebula Spectrograph: The Green Light for Galaxy Kinematics", *PASP*, **114**, 1234. [NL] (PNS).
26. S. A. Edwards, M. Colless, T. Bridges, D. Carter, B. Mobasher, B. Poggianti, "Substructure in the Coma Cluster: Giants versus Dwarfs", *Astrophys J*, **567**, 178. [AU] (AF2).
27. C. Esteban, M. Peimbert, S. Torres-Peimbert, "DIBs, Optical Recombination Lines of Heavy Elements in Giant Extragalactic HII Regions", *Astrophys J*, **581**, 241. [ES] (ISIS).
28. J. Falcón-Barroso, R. F. Peletier, M. Balcells, "Bulges on the Fundamental Plane of early-type galaxies", *MNRAS*, **335**, 741. [UK] (ISIS).
29. A. Ford, R. D. Jeffries, B. Smally, S. G. Ryan, W. Aoki, S. Kawanomoto, D. J. James, S. R. Barnes, "Lithium 6104Å in Population II star", *Astron Astrophys*, **393**, 617. [UK] (UES).
30. M. J. Fox, A. Efsthathiou, M. Rowan-Robinson, J. S. Dunlop, S. Scott, S. Serjeant, R. G. Mann, S. Oliver, R. J. Ivison, A. Blain, O. Almaini, D. Hughes, C. J. Willott, M. Longair, A. Lawrence, J. A. Peacock, "The SCUBA 8-mJy survey - II. Multiwavelength analysis of bright submillimetre sources", *MNRAS*, **331**, 839. [UK] (INGRID, PFIP).
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32. G. Gómez, R. López, "Nebular Spectra of the Type Ic Supernovae 1997B and 1997X", *Astron J*, **123**, 328. [ES] (FOS2, IDS).
33. R. M. González Delgado, S. Arribas, E. Pérez, T. Heckman, "Is a Minor Merger Driving the Nuclear Activity in the Seyfert 2 Galaxy NGC 2110?", *Astrophys J*, **579**, 188. [ES] (INTEGRAL).
34. A. Greve, K. A. Wills, N. Neininger, A. Pedlar, "M82's stellar bar", *Astron Astrophys*, **383**, 56. [FR] (ISIS).
35. C. M. Gutiérrez, M. Azzaro, F. Prada, "The Properties of Satellite Galaxies in External Systems. I. Morphology and Structural Parameters", *Astrophys J Suppl*, **141**, 61. [ES] (AUX, WFC).
36. T. J. Harries, I. D. Howarth, C. J. Evans, "Spectropolarimetry of O supergiants", *MNRAS*, **337**, 341. [UK] (ISIS).
37. T. Haynes, G. Cotter, J. C. Baker, S. Eales, M. E. Jones, S. Rawlings, R. Saunders, "Deep optical imaging of the field of PC 1643+4631A&B - I. Spatial distributions and the counts of faint galaxies", *MNRAS*, **334**, 262. [UK] (PFIP).
38. R. I. Hynes, J. S. Clark, E. A. Barsukova, P. J. Callanan, P. A. Charles, A. Collier Cameron, S. N. Fabrika, M. R. García, C. A. Haswell, K. Horne, A. Miroshnichenko, I. Negueruela, P. Reig, W. F. Welsh, D. K. Witherick, "Spectroscopic observations of the candidate sgB[e]/X-ray binary CI Camelopardalis", *Astron Astrophys*, **392**, 991. [UK] (ISIS, UES).
39. R. I. Hynes, C. Zurita, C. A. Haswell, J. Casares, P. A. Charles, E. P. Pavlenko, S. Yu Shugarov, D. A. Lott, "H-alpha flares from V404 Cyg in quiescence", *MNRAS*, **330**, 1009. [UK] (ISIS, JKT CCD).
40. K. J. Inskip, P. N. Best, S. Rawlings, M. S. Longair, G. Cotter, H. J. A. Röttgering, S. Eales, "Deep spectroscopy of z~1 6C radio galaxies - I. The effects of radio power and size on the properties of the emission-line gas", *MNRAS*, **337**, 1381. [UK] (ISIS).
41. R. J. Irgens, P. B. Lilje, H. Dahle, S. J. Maddox, "Weak Gravitational Lensing by a Sample of X-Ray Luminous Clusters of Galaxies. II. Comparison with Virial Masses", *Astrophys J*, **579**, 227. [NO] (LDSS2).
42. R. J. Ivison, T. R. Greve, I. Smail, J. S. Dunlop, N. D. Roche, S. E. Scott, M. J. Page, J. A. Stevens, O. Almaini, A. W. Blain, C. J. Willott, M. J. Fox, D. G. Gilbank, S. Serjeant, D. H. Hughes, "Deep radio imaging of the SCUBA 8-mJy survey fields: submillimetre source identifications and redshift distribution", *MNRAS*, **337**, 1. [UK] (INGRID, PFIP).
43. S. V. Jeffers, J. R. Barnes, A. Collier Cameron, "The latitude distribution of star-spots on He 699", *MNRAS*, **331**, 666. [UK] (UES).
44. S. Joglee, J. H. Knapen, S. Laine, I. Shlosman, N. Z. Scoville, P. Englmaier, "Discovery and Implications of a New Large-Scale Stellar Bar in NGC 5248", *Astrophys J*, **570**, L55. [US] (INGRID, WFC).
45. T. R. Kendall, M. Mauron, J. McCombie, P. J. Sarre, "VLT/UVES and WHT/UES absorption spectroscopy of the circumstellar envelope of IRC + 100 216 using background stars. First results and a search for DIBs", *Astron Astrophys*, **387**, 624. [PT] (UES).
46. J. Kleyana, M. I. Wilkinson, N. W. Evans, G. Gilmore, C. Frayn, "Dark matter in dwarf spheroidals - II. Observations and modelling of Draco", *MNRAS*, **330**, 792. [UK] (AF2).
47. Y. Komiyama, M. Sekiguchi, N. Kashikawa, M. Yagi, M. Doi, M. Iye, S. Okamura, K. Shimasaku, N. Yasuda, B. Mobasher, D. Carter, T. J. Bridges, B. M. Poggianti, "A Photometric and Spectroscopic Study of Dwarf and Giant Galaxies in the Coma Cluster. I. Wide-Area Photometric Survey: Observation and Data Analysis", *Astrophys J Suppl*, **138**, 265. [Japan] (MCCDII).
48. D. Londish, S. M. Croom, B. J. Boyle, T. Shanks, P. J. Outram, E. M. Sadler, N. S. Loaring, R. J. Smith, L. Miller, P. F. L. Maxted, "The 2QZ BL Lac survey", *MNRAS*, **334**, 941. [AU] (ISIS).
49. P. F. L. Maxted, M. R. Burleigh, T. R. Marsh, N. P. Bannister, "PG 1115+166 - a long-period DA+DB binary", *MNRAS*, **334**, 833. [UK] (ISIS, IDS).
50. P. F. L. Maxted, T. R. Marsh, U. Heber, L. Morales-Rueda, R. C. North, W. A. Lawson, "Photometry of four binary subdwarf B stars and the nature of their unseen companion stars", *MNRAS*, **333**, 231. [UK] (ISIS, IDS, JKT CCD).

51. P. F. L. Maxted, T. R. Marsh, C. K. J. Moran, "The mass ratio distribution of short-period double degenerate stars", *MNRAS*, **332**, 745. [UK] (ISIS, IDS).
52. S. A. W. Moore, J. R. Lucey, H. Kuntschner, M. Colless, "Stellar populations in early-type Coma cluster galaxies - I. The data", *MNRAS*, **336**, 382. [UK] (AF2).
53. A. Mora, A. Natta, C. Eiroa, C. A. Grady, D. de Winter, J. K. Davies, R. Ferlet, A. W. Harris, B. Montesinos, R. D. Oudmaijer, J. Palacios, A. Quirrenbach, H. Rauer, A. Alberdi, A. Cameron, H. J. Deeg, F. Garzon, K. Horne, B. Merin, A. Penny, J. Schneider, E. Solano, Y. Tsapras, P. R. Wesselius, "A dynamical study of the circumstellar gas in UX Orionis", *Astron Astrophys*, **393**, 259. [ES] (UES).
54. L. Morales-Rueda, T. R. Marsh, "Spectral atlas of dwarf novae in outburst", *MNRAS*, **332**, 814. [UK] (ISIS, IDS).
55. V. Motta, E. Mediavilla, J. A. Muñoz, E. Falco, C. S. Kochanek, S. Arribas, B. García-Lorenzo, A. Oscoz, M. Serra-Ricart, "Detection of the 2175 Å Extinction Feature at  $z=0.83$ , 2002", *Astrophys J*, **574**, 719. [ES] (INTEGRAL).
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58. K. M. Perrett, T. J. Bridges, D. A. Hanes, M. J. Irwin, J. P. Brodie, D. Carter, J. P. Huchra, F. G. Watson, "The Kinematics and Metallicity of the M31 Globular Cluster System", *Astron J*, **123**, 2490. [CA] (AF2).
59. R. N. Proctor, A. E. Sansom, "A comparison of stellar populations in galaxy spheroids across a wide range of Hubble types", *MNRAS*, **333**, 517. [UK] (ISIS).
60. M. G. Richer, G. Toumassian, G. Stasinska, R. F. Jameson, P. D. Dobbie, C. Veillet, C. Gutiérrez, F. Prada, "The alpha-element abundances in the most oxygen-poor planetary nebula PNG 135.9+55.9", *Astron Astrophys*, **395**, 929. [US] (ISIS).
61. T. G. Robinson, C. N. Tadhunter, J. E. Dyson, "Overpressured emission-line clouds in the haloes of powerful radio galaxies", *MNRAS*, **331**, L13. [UK] (ISIS).
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## Isaac Newton Telescope

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