

WELCO
ME

VMOS Metrics

Jorge Melnick

VLT program scientist

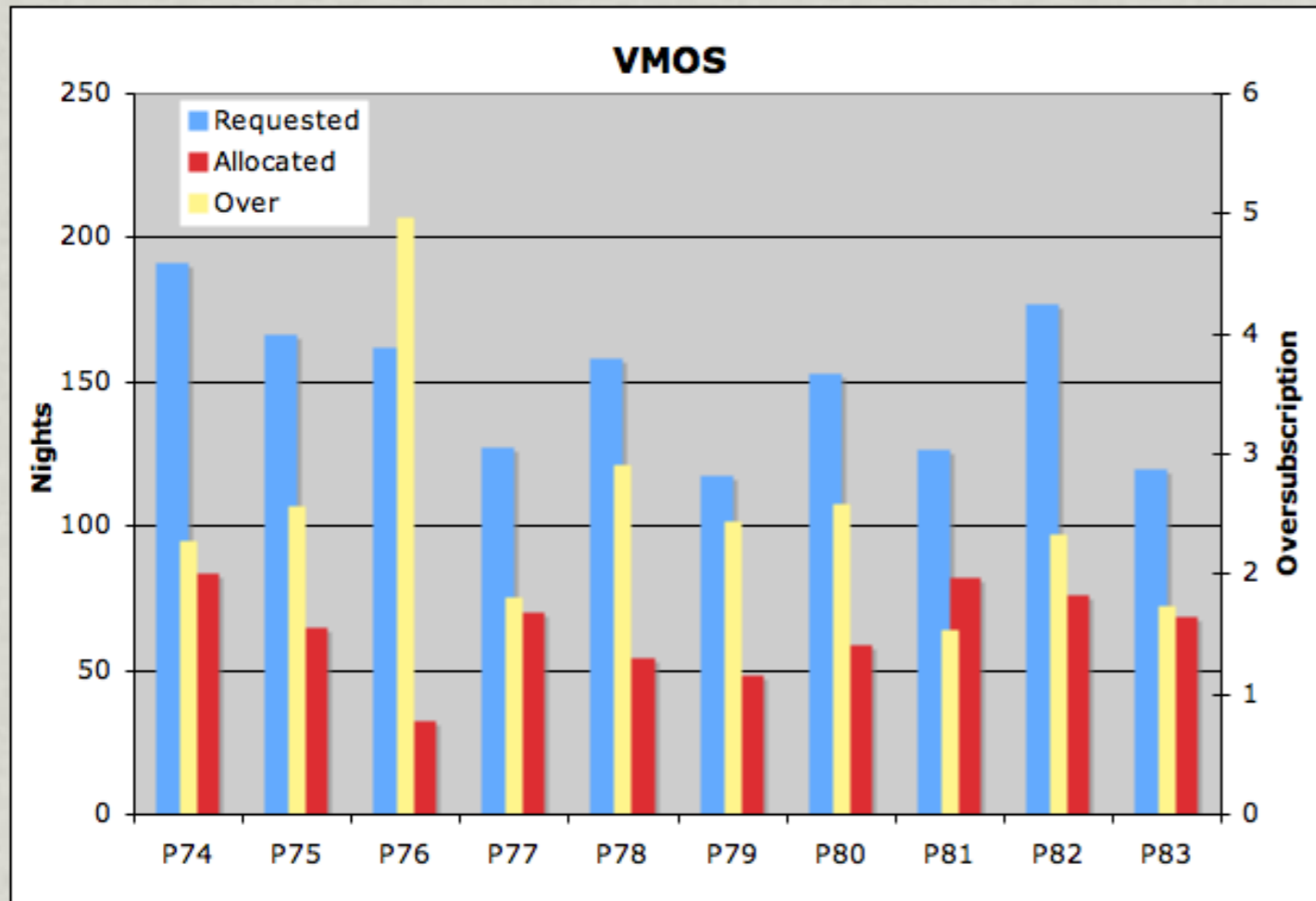
What do we do with VMOS?

Paper	Citations	Title	Authors
2004A&A...428.1043L	135	The VIMOS VLT Deep Survey. Public release of 1599 redshifts to $IAB \leq 24$ across the Chandra Deep Field South	Le Fèvre, et al.
2005A&A...439..845L	129	The VIMOS VLT deep survey. First epoch VVDS-deep survey: 11 564 spectra with $17.5 \leq IAB \leq 24$, and the redshift distribution over $0 \leq z \leq 5$	Le Fèvre, O., et al.
2005ApJ...619L..47S	125	The GALEX-VVDS Measurement of the Evolution of the Far-Ultraviolet Luminosity Density and the Cosmic Star Formation Rate	Schiminovic et al.
2007ApJS..172....1S	104	The Cosmic Evolution Survey (COSMOS): Overview	Scoville et al.
2006A&A...457..841I	101	Accurate photometric redshifts for the CFHT legacy survey calibrated using the VIMOS VLT deep survey	Ilbert, O.; et al.
2006A&A...459..745F	86	The Galaxy mass function up to $z = 4$ in the GOODS-MUSIC sample: into the epoch of formation of massive galaxies	Fontana, A.; et al.
2006A&A...449..951G	75	The GOODS-MUSIC sample: a multicolour catalog of near-IR selected galaxies in the GOODS-South field	Grazian, A.; et al.
2005A&A...439..863I	75	The VIMOS-VLT deep survey. Evolution of the galaxy luminosity function up to $z = 2$ in first epoch data	Ilbert, O.; et al.
2005ApJ...619L..43A	74	The GALEX VIMOS-VLT Deep Survey Measurement of the Evolution of the 1500 \AA Luminosity Function	Arnouts, S.; et al.
2006Natur 442 786	73	The rapid formation of a large rotating disk galaxy	Genzel, R. et al.

2007ApJS..172...70L	68	zCOSMOS: A Large VLT/VIMOS Redshift Survey Covering $0 < z < 3$ in the COSMOS Field	Lilly, S.; et al.
2007ApJS..172..117M	63	Photometric Redshifts of Galaxies in COSMOS	Mobasher, B.; et al.
2007Natur.445..286M	61	Dark matter maps reveal cosmic scaffolding	Massey, R.; et al.
2006A&A...455..879Z	57	The VIMOS VLT Deep Survey. Evolution of the luminosity functions by galaxy type up to $z = 1.5$ from first epoch data	Zucca, E.; et al.
2007ApJS..172..239M	54	COSMOS: Three-dimensional Weak Lensing and the Growth of Structure	Massey, R.; et al.
2005PASP..117.1284S	41	The VVDS Data-Reduction Pipeline: Introducing VIPGI, the VIMOS Interactive Pipeline and Graphical Interface	Scodeggio, et al.
2007A&A...474..443P	41	The VIMOS VLT Deep Survey. The assembly history of the stellar mass in galaxies: from the young to the old universe	Pozzetti, L.; et al.,
2007ApJS..172...86S	41	S-COSMOS: The Spitzer Legacy Survey of the Hubble Space Telescope ACS 2 deg ² COSMOS Field I: Survey Strategy and	Sanders, D. B.; et al.
2007ApJS..172..150S	40	Large Structures and Galaxy Evolution in COSMOS at $z < 1.1$	Scoville, N.; et al.
2007ApJS..172..353B	40	The XMM-Newton Wide-Field Survey in the COSMOS Field. III. Optical Identification and Multiwavelength Properties of a Large	Brusa, M.; et al.

with VMOS we do...

✓ Large cosmological surveys!

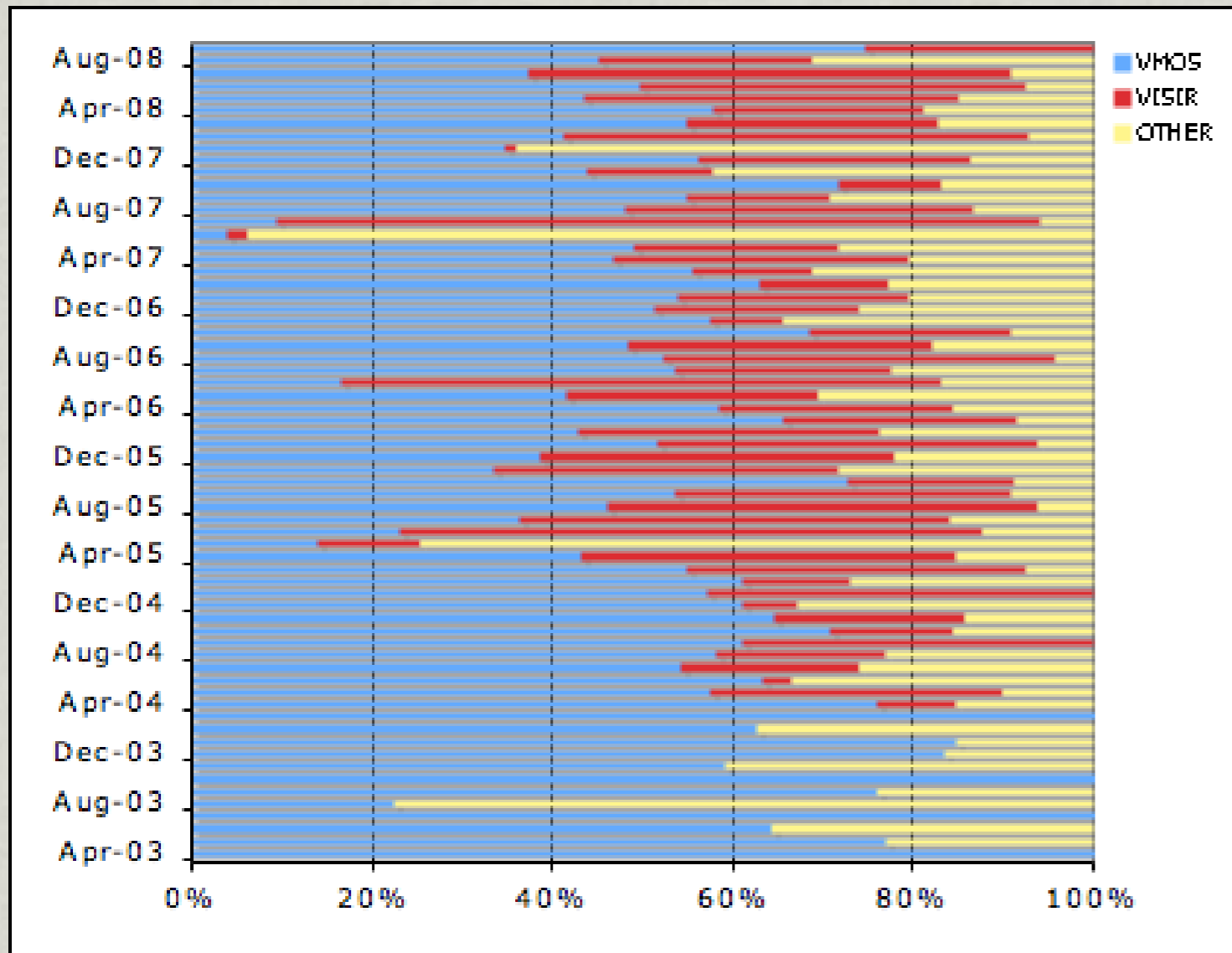


Oversubscription < 2!!

Oversubscription factors for P83 (P82 FORS1 & ISAAC)

FORs 1	FORs 2	UVES	ISAAC	HAWKI	SINFON I	NACO
3.5	4.7	2.3	6.0	4.4	2.3	3.8

The VMOS brotherhood (UT3)

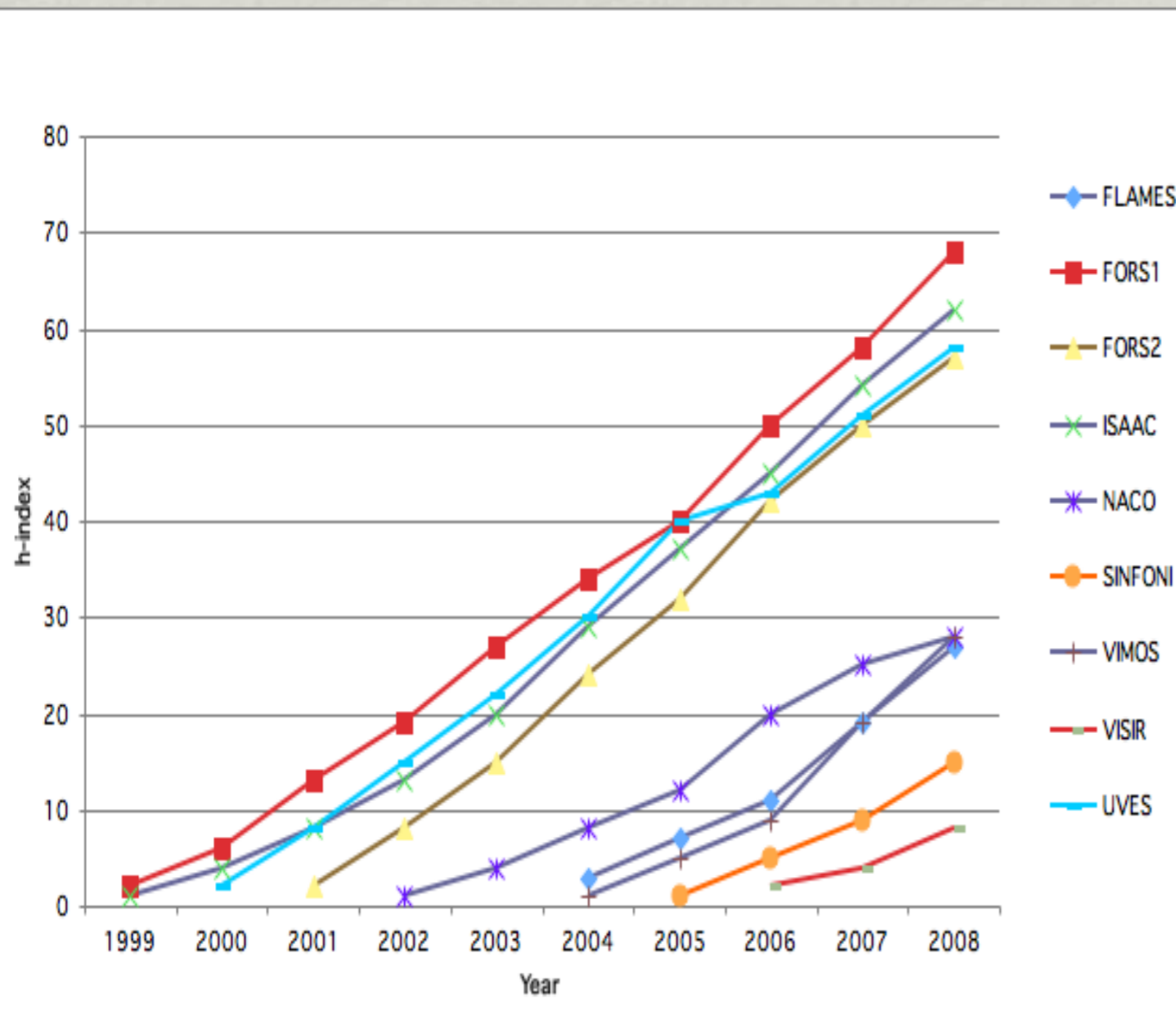


VMOS	49.4%
VISIR	23.3%
Other	19.5%

Productivity = Papers/night
 Citability = Citations/night

	Papers	Citations	Year of first paper	Nights	Productivity	Citability
VMOS	147	2718	2004	992	0.15	2.7
VISIR	48	223	2005	468	0.10	0.5
OTHER	---	---	---	393	---	---

h as in himpact



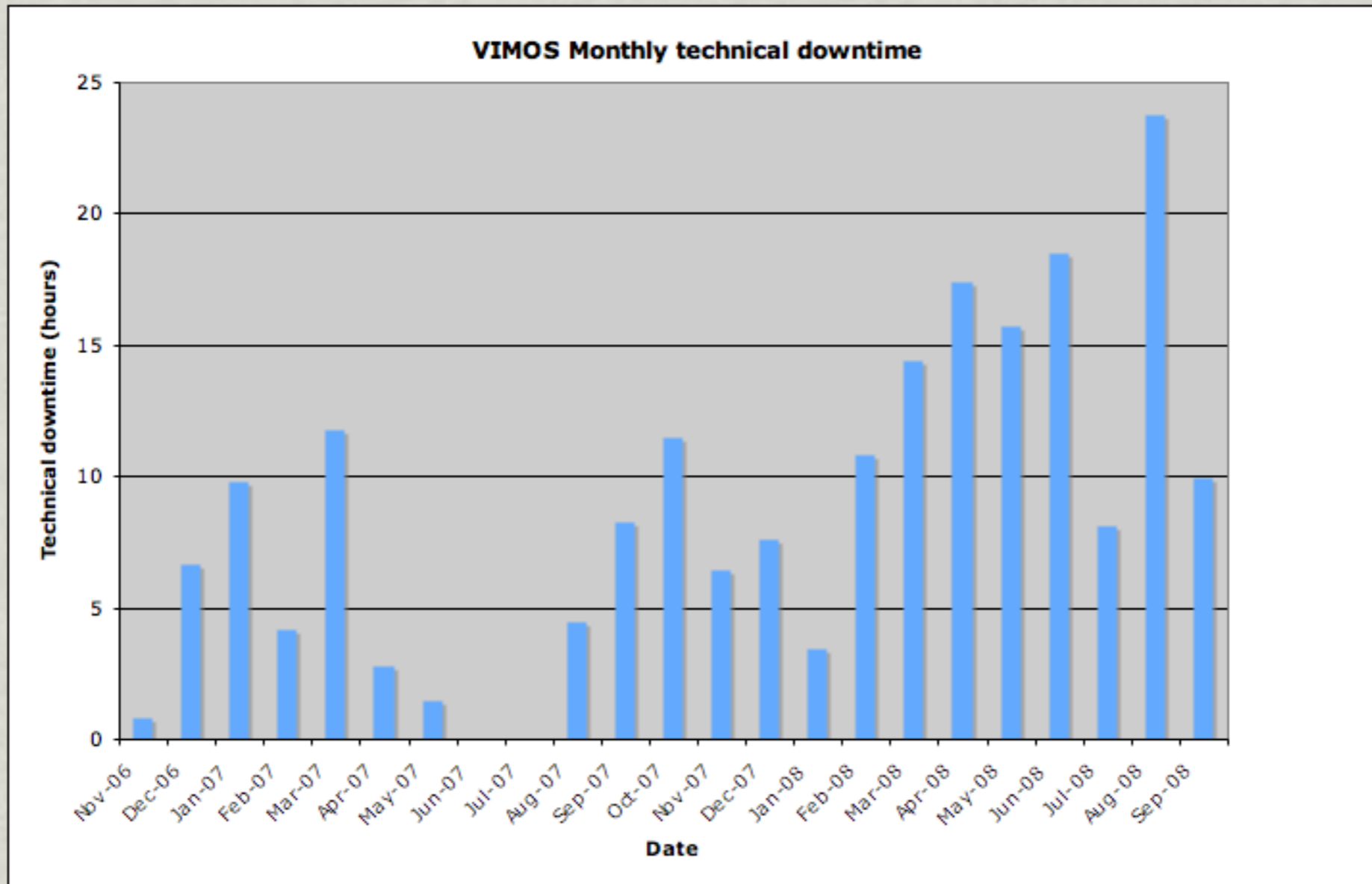
To calculate *h*:

- Rank papers by citations;
- Find the paper for which #citations = ranking;
- *h* is the #citations of that paper.

The meaning of *h* for instruments is not clear, but dh/dt is probably meaningful.

	VMOS	VISIR	NACO	ISAAC
dh/dt	9.5	---	6	6

Another alarm...



FLAMES Metrics (C. Melo)

Jorge Melnick

VLT program scientist

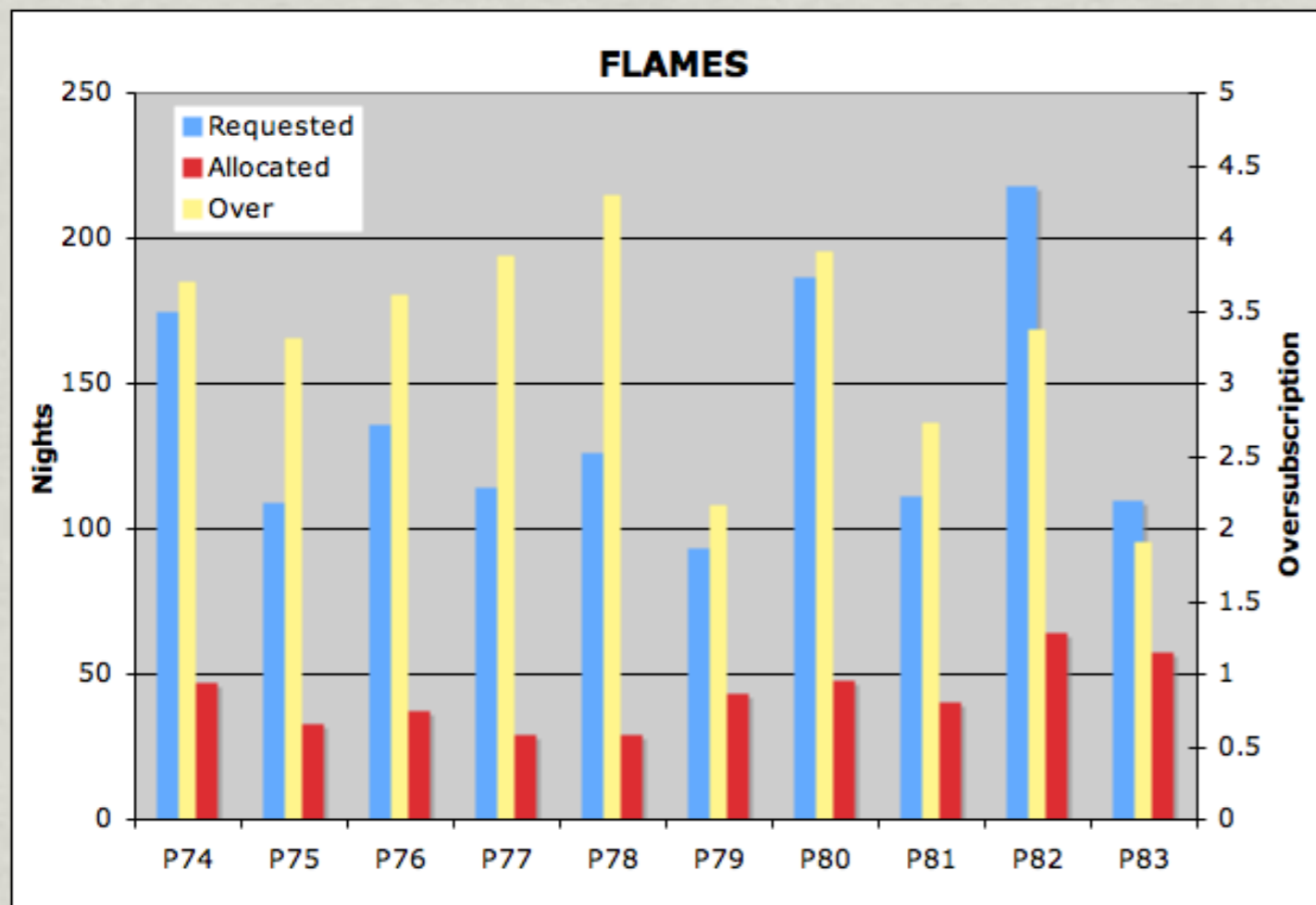
What do we do with FLAMES?

#	Citation	Bibcode	Authors	Title
1	152	2004A&A...421L..13B	Bouchy, F.; Pont, F.; Santos, N. C. et al.	Two new ``very hot Jupiters" among the OGLE transiting candidates
2	113	2004A&A...426L..15P	Pont, F.; Bouchy, F.; Queloz, D. et al.	The ``missing link": A 4-day period transiting exoplanet around OGLE-TR-111
3	112	2005ApJ...621..777P	Piotto, Giampaolo; Villanova, Sandro; Bedin, Luigi R. et al.	Metallicities on the Double Main Sequence of omega Centauri Imply Large Helium Enhancement
4	94	2004ApJ...617L.119T	Tolstoy, Eline; Irwin, M. J.; Helmi, A. et al.	Two Distinct Ancient Components in the Sculptor Dwarf Spheroidal Galaxy: First Results from the Dwarf Abundances and Radial Velocities Team
5	79	2005A&A...431.1105B	Bouchy, F.; Pont, F.; Melo, C. et al.	Doppler follow-up of OGLE transiting companions in the Galactic bulge
6	69	2005ApJ...624..372K	Konacki, Maciej; Torres, Guillermo; Sasselov, Dimitar D.; Jha, Saurabh	A Transiting Extrasolar Giant Planet around the Star OGLE-TR-10
7	61	2006Natur.442..657K	Korn, A. J.; Grundahl, F.; Richard, O. et al.	A probable stellar solution to the cosmological lithium discrepancy
8	56	2005A&A...438.1123P	Pont, F.; Bouchy, F.; Melo, C. et al.	Doppler follow-up of OGLE planetary transit candidates in Carina
9	48	2006A&A...455..107F	Flores, H.; Hammer, F.; Puech, M.; Amram, P.; Balkowski, C.	3D spectroscopy with VLT/GIRAFFE. I. The true Tully Fisher relationship at $z \sim 0.6$
10	47	2006A&A...459..423B	Battaglia, G.; Tolstoy, E.; Helmi, A. et al.	The DART imaging and CaT survey of the Fornax dwarf spheroidal galaxy

#	Citation	Bibcode	Authors	Title
12	41	2004ApJ...614L..33A	Arnaboldi, Magda; Gerhard, Ortwin; Aguerri, J. Alfonso L. et al.	The Line-of-Sight Velocity Distributions of Intracluster Planetary Nebulae in the Virgo Cluster Core
13	39	2006ApJ...649..201M	Muñoz, Ricardo R.; Majewski, Steven R.; Zaggia, Simone et al.	Exploring Halo Substructure with Giant Stars. XI. The Tidal Tails of the Carina Dwarf Spheroidal Galaxy and the Discovery of Magellanic Cloud Stars in the Carina Foreground
14	39	2006ApJ...651L.121H	Helmi, Amina; Irwin, M. J.; Tolstoy, E. et al.	A New View of the Dwarf Spheroidal Satellites of the Milky Way from VLT FLAMES: Where Are the Very Metal-poor Stars?
15	38	2005A&A...433L..21P	Pont, F.; Melo, C. H. F.; Bouchy, F. et al.	A planet-sized transiting star around OGLE-TR-122. Accurate mass and radius near the hydrogen-burning limit
16	38	2006A&A...456.1131M	Mokiem, M. R.; de Koter, A.; Evans, C. J. et al.	The VLT-FLAMES survey of massive stars: mass loss and rotation of early-type stars in the SMC
17	35	2005A&A...437..467E	Evans, C. J.; Smartt, S. J.; Lee, J.-K. et al.	The VLT-FLAMES survey of massive stars: Observations in the Galactic clusters NGC 3293, NGC 4755 and NGC 6611
18	34	2005ApJ...634..332S	Sollima, A.; Pancino, E.; Ferraro, F. R. et al.	Metallicities, Relative Ages, and Kinematics of Stellar Populations in ω Centauri
19	34	2005ApJ...626L..49P	Palla, Francesco; Randich, Sofia; Flaccomio, Ettore; Pallavicini, Roberto	Age Spreads in Star-forming Regions: The Lithium Test in the Orion Nebula Cluster
20	34	2006A&A...448..881B	Bastian, N.; Saglia, R. P.; Goudfrooij, P. et al.	Dynamical mass estimates for two luminous star clusters in galactic merger remnants

with FLAMES we do...

- ✓ Planets
- ✓ Kinematics
- ✓ Abundances of clusters and dwarf galaxies
- ✓ Stellar evolution, nucleosynthesis, winds

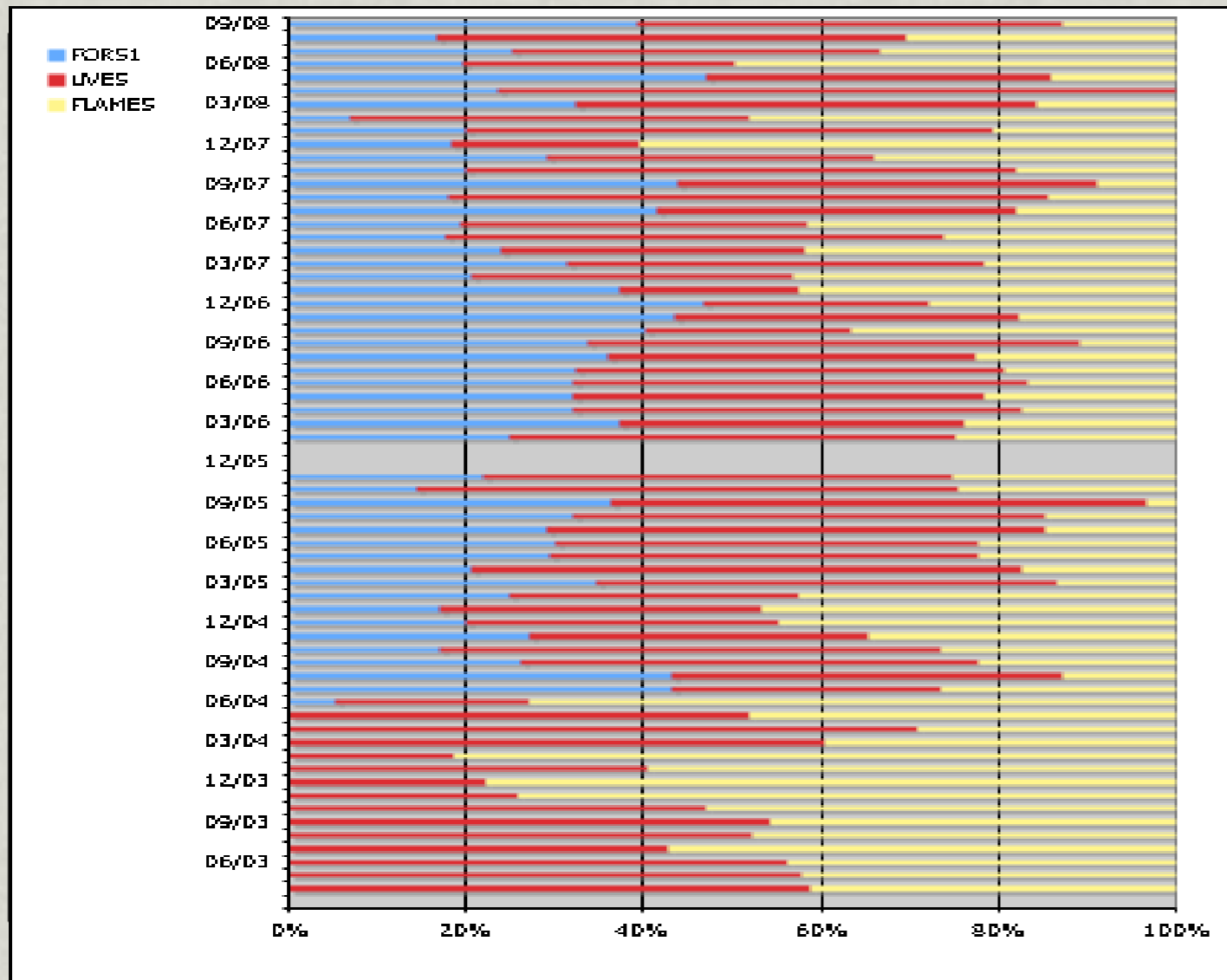


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The FLAMES sisterhood (UT2)

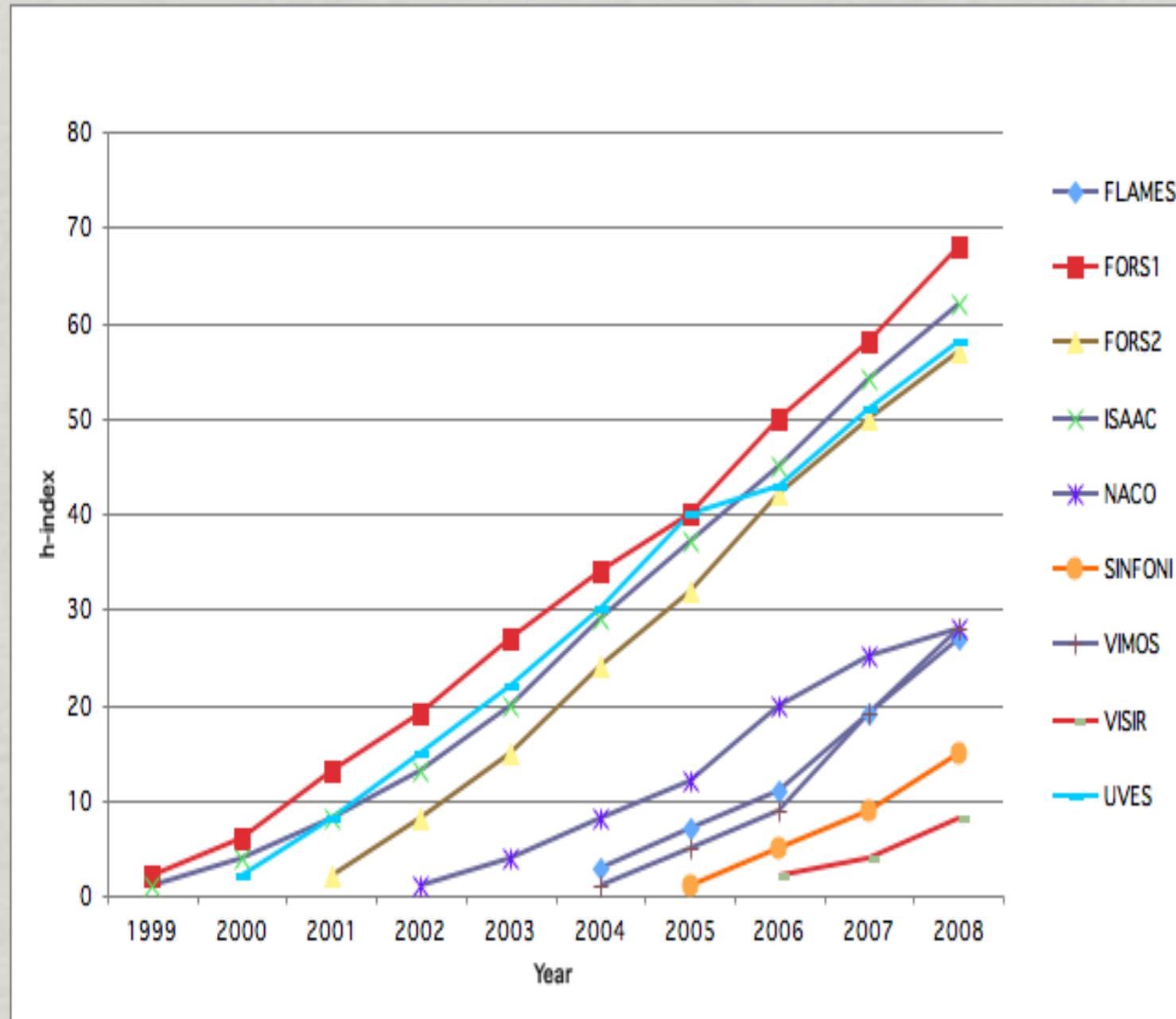


FORS1	23.0%
UVES	34.3%
FLAMES	29.8%
VLT-I	10%

Productivity = Papers/night
 Citability = Citations/night

	Papers	Citations	Year of first paper	Nights	Productivity	Citability
FLAMES	129	2300	2004	625	0.21	3.7
FORS1	657	21360	1999	1304	0.50	16.4
UVES	668	14974	2000	1582	0.42	9.5

h as in himpact



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	FLAMES	FORS1	UVES
dh/dt	8	9	7.5