

M. Tsvetkov, K. Tsvetkova, A. Borisova, D. Kalaglarski, R. Bogdanovski - WFPDB, Sofia Sky Archive Data Center, Bulgarian Academy of Sciences, Bulgaria and U. Heber, I. Bues, H. Drechsel, R. Knigge - Dr. Remeis-Sternwarte Bamberg, Astronomical Institute of the University of Erlangen-Nuernberg, Germany



Wide-Field Plate Dat Jount John Present in the Observatory stacks were obtained in the Jount John University Observatory - Lake Tekapo (New Zealand) onal programme supported by the Deutsche Forschungsgemeinschal or (1965) Director of the Rambaro Observations 9.59 Januar Supported by the Deutsche Forschungsgemein 965) Director of the Bamberg Observatory that time. Digit first time, included into the WFPDB providing access to on is paid to the sub-survey in the LMC region. An opportun d scanner is offered in the observatory since May 2003. of Dr.W

Dr. Karl Remeis - founder of the Bamberg Observatory

In the early 60's German astronomers from Potsdam, Hamburg, Heidelberg, Goettingen, etc. activated their plans to create a southern astronomical observatory (Wolfschmidt, 2002). As a result in the framework of the European cooperation the ESO (at present the world largest astronomical organization) was founded in 1963. Just in that time the Bamberg astronomers lunched the project of monitoring the southern sky with 10 cm Kodak multiple astrograph placed at the Boyden Station (South Africa). The project chaired by Prof. W. Strohmeier (1965) was supported by the **Deutsche Forschungsgemeinschaft** (DFG) and successfully executed in the period 1963-1976. As a result more than 22 000 monitoring plates covering the whole southern sky were received, now well stored in the Bamberg Observatory. nberg Observatory

e value of the Bamberg Southern Survey (BSS) rises as a unique one in s period as the Harvard sky patrols in South Africa were stopped that he and other observatories were not still active.

All sky distribution of the

Bamberg Southern Sky Survey, given in "Molweide" projection:



Bamberg LMC Survey frame of the Bamberg

In the frame of the Bamberg Southern Survey a special attention on the monitoring of Large Magellanic Cloud was paid. The Bamberg LMC sub survey contains about 300 plates received with the astrograph (BAM010) and Harvard 10° and 8° telescopes. The plate numbers distribution vs. time is shown on the finure balew

w scanning facility in th

the new scanning faculty in the Bamberg Observatory Plate Stack provided recently by DFG: flatbed scanner Epson Expression 1640XL and the powerful PC with DVD with report It allows to digitize the plates with resolution of 16 mic, A3

te size. FITS fo



View of the historical part of the beautiful town of Bamberg from the windows of the Plate Stacks in Bamberg Observatory



One of the Kodak AERO-EKTAR objectives of the Bamberg Astrograph used for the Southern Survey.

 Description

 Plate
 Astrograph used for the Southern

 Plate
 Archive

 The plates from the Dr. Remeis Observatory Bamberg Southern Patrol Photographic Sky Survey were taken with the 20 Kodak cameras (d=10 cm, WFPD6 identifier BAM010A, ...B., C., ...T), the Bamberg 7 cm Zeiss camera (BAM007), and the Harvard telescopes - 10" Metcalf (HAR025), and 3" Ross B (HAR008C). Emulsions used for the survey were Perutz (1963-1964) and AGFA- Astro (in the rest of the period of the monitoring). In 1973-1976 some Kodak emulsions were successfully used monitoring) to the observations in New Zealand. Plate size is usually 16x16 cm², covering respectively of 13 sq. deg each.

 The plates were received in the period 1963-1976 in Boyden Observatory (Republic of South Africa) - Cameras A.J, Mount John University Observatory Lake Tekapo (New Zealand) - Cameras A, L, M and N, and San Miguel Observatory (Argentina) - Cameras O, P, O, R, S and T. The observational programme supported by the DFG and supervised by Prof. Dr. W. Strohmeier (1965, Kleine Veroeff, der Remeis Sternwarte, Bd. IV, No. 40, p. 302) was executed manly by R. Knigge and his collaborators - E. Shoeffel, F.-M. Sosna, U. Koehler, H. Ott (Bamberg), S. Shaw, J. Sievers (Florida University) and the astronomers technicians Fischer and Meier (Boyden), I. Paterson and M. Clark (Mt. John), and F.-M. Sosna and A. Alarcon (San Miguei).

 All plates at present are stored in the observatory plate stacks and are in very good conditions.

inal plates are at disposal in the Bamberg Observatory for astronomical tasks UPON REQUEST. The opportunity for plate on with the flatbed scanner (Epson Expression 1640XL) has been



Preview image of the LMC Bamberg survey plate (NZ194) scann with the Epson Expression1640XL flatbed scanner

CONTACTS

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tel: +49-951-9 Prof. Dr. Irmela Bues e-mail: bues@sternwarte.uni-erlangen.de 2222-13) Fax: +49-951-95222-22 ;

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Prot Dr.W. Strohmeier- Director of the Bamberg Observatory that time

computer readable version of the Bamberg plate collection and database ss were prepared in the period 1996-2002 by the team of the Wide-Field Database (WFPDB, http://www.shorthiwe.org), Bulgarian Academy of nces, supported by the Alexander von Humboldt Foundation (2001-2003) //www.shite.), DFG (2003), (http://www.shite.), the Bulgarian nal Science Fund grant NFS I-1103/2001, the IAU Commission 9 rruments" Working Group on Sky Surveys. Last year part of this work is dinated in the frame of COST Action 283 "Computational and Information istructure in the Astronomical DataGrid".

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A sample from the WFPDB search page providing information for the plates needed and preview of the plate images taken with the 2 Megapixel SiPiX CCD camera.



REFERENCES

NUMBER OF PLATES

te Bd IV No 4 A. 1992, The IAU WGWFI Newsletter, No. 2. p.72