

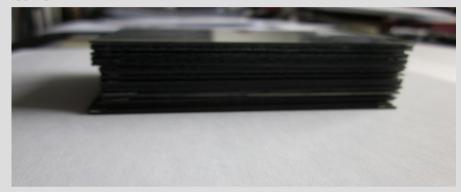


Searching, sorting, and saving

Before...



and ...



Current state...





On the way to order...







RUB

Large format plates





New temporary storage and analysis corner next to computer servers Temperature, but not humidity controlled... (well, humidity control is only manually...)

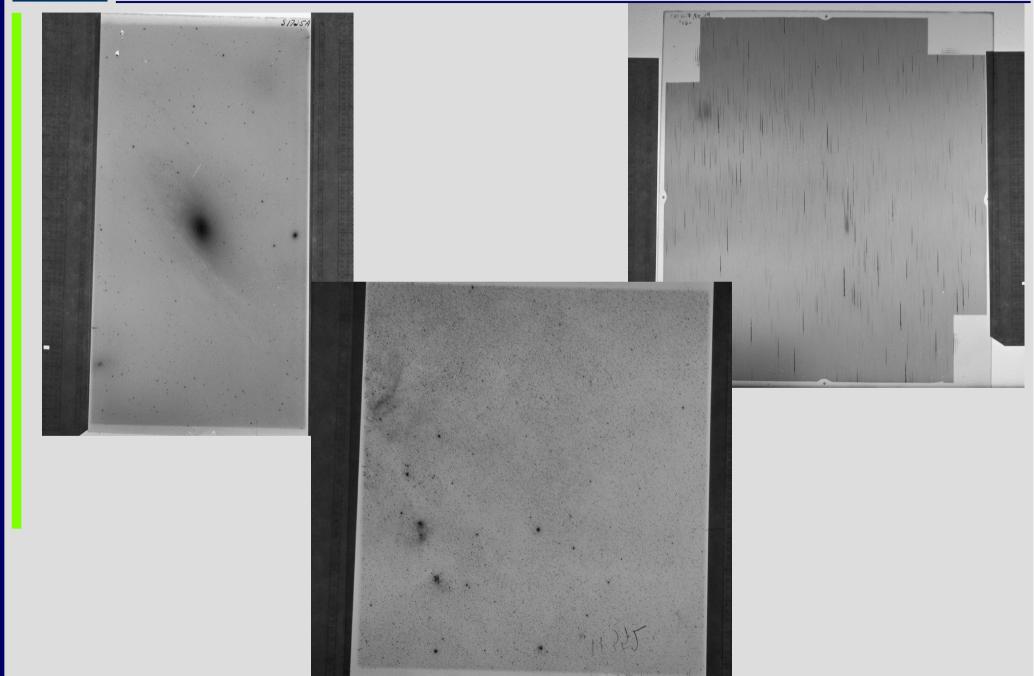


Current state of the inventory

- ~ 820 large and smaller format glas plates from > 14 different telescopes
 - Imaging, objective prism, and spectral plates
 - Dates from ~1920 to ~1987
- Halley project archive (1986)
 - ~750 wide field images of Halley
 - ~200 film strips (5 images each) of comet nucleus/coma
- Gauss camera archive (extreme widefield UBVR images of Milky Way)
 - ~ 120 plates (Chile 1971,1972)
 - 6 film rolls (Chile 1971,1972)
 - 110 far UV images on slides from Gauss camera aboard STS-55 taken during the D2 space shuttle mission 1993
- Widefield images of Magellanic Clouds and MW fields (1971-1986)
 - ~ 50 plates
- Glass copy of ESO Quick Blue survey
- Film copies of Quick Blue and SRC-J surveys, as well as paper copies of POSS-I



Large format plate examples





Halley archive



7.5cm f/4 photo lens

20cm f/3.8 flat field camera (FFC)



FFC during recent tests following upgrade with filter wheel and large format CCD







Gauss camera archive



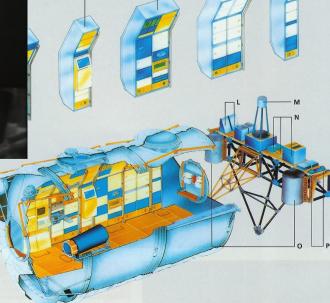
Gauss camera on display at FH Aachen (Fachbereich Luftund Raumfahrt)

Photo: D. Fischer











Scientific use

Current activity is mainly focussed on variability of evolved massive stars:

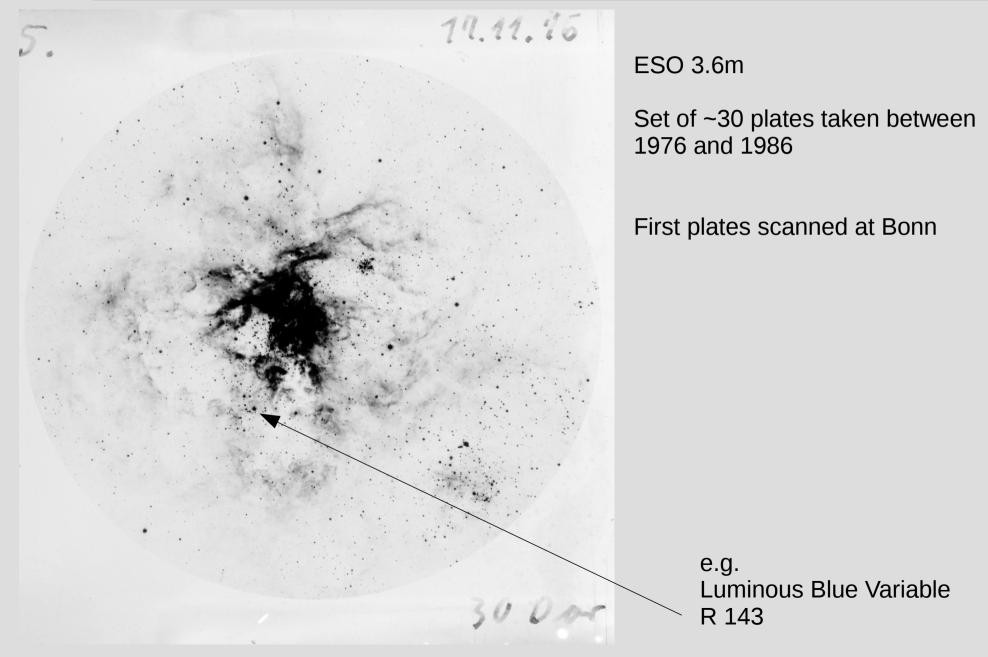
- use LMC/SMC plates (and Bamberg plate archive (U. Heber); ESO to be checked)
- use M31, M33 plates (with major contributions from Tautenburg (H. Meusinger) and in cooperation with US partners)
- objective prism plates (spectral changes in galactic evolved massive stars)
- variability of massive stars in clusters (with major contribution from Bonn (M.Geffert))

Future:

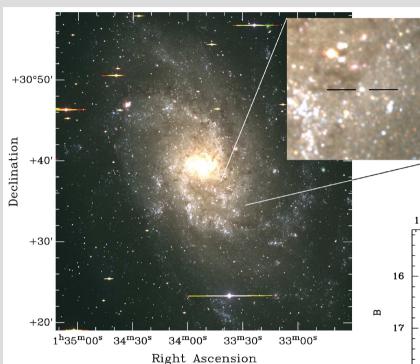
- exploring use of Gauss imagery (especially UV) for massive star science
- looking into scan options for Halley archive



Variable massive stars in 30 Dor



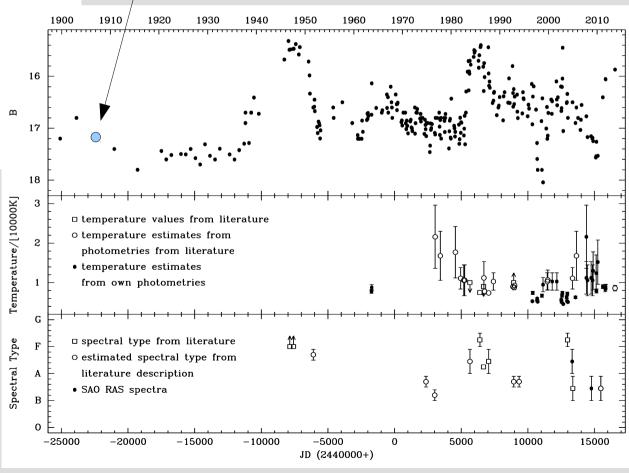
M33 Var C



measurement on Waltz Reflector plate (taken 1908 by M. Wolf) scan from Heidelberg archive inside GAVO

Color image of M33 from Tautenburg 2m CCD data

Burggraf, Weis, Bomans et al. A&A submitted



Thank you for your attention!