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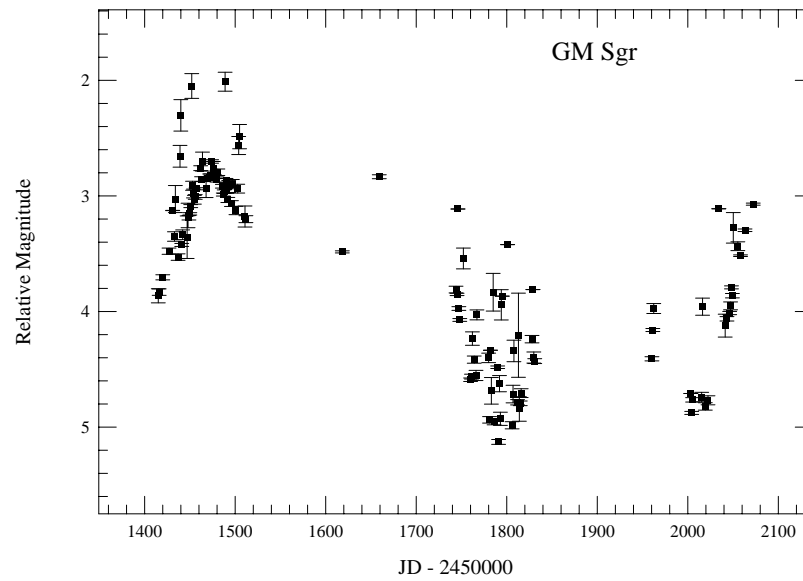
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### VARIABILITY OF LUYTEN'S GM Sgr

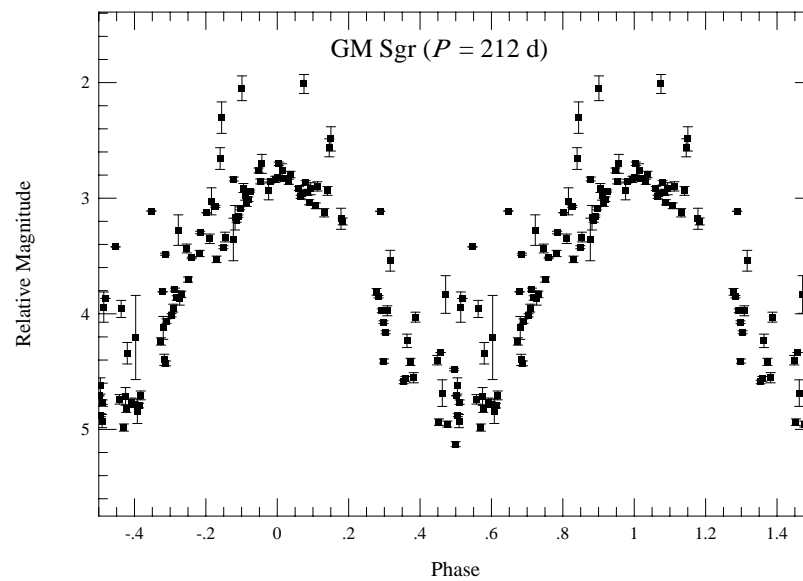
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<b>Name of the object:</b>	
GM Sgr (Luyten's GM Sgr, in order to avoid confusion with V4641 Sgr, which had been called as GM Sgr)	
<b>Equatorial coordinates:</b>	<b>Equinox:</b>
R.A.= 18 <sup>h</sup> 19 <sup>m</sup> 21 <sup>s</sup> .4    DEC.= –25°25'37"	J2000.0
<b>Observatory and telescope:</b>	
25-cm Schmidt–Cassegrain telescope at Kyoto University	
<b>Detector:</b>	ST-7 camera
<b>Filter(s):</b>	None
<b>Comparison star(s):</b>	GSC 6848.3882 (Tycho $V = 9.30$ , $B - V = +0.49$ )
<b>Check star(s):</b>	GSC 6848.3606
<b>Transformed to a standard system:</b>	No
<b>Availability of the data:</b>	
Upon request	
<b>Type of variability:</b>	M
<b>Remarks:</b>	
We continued CCD photometry using the same instruments and photometric procedures described in Kato and Uemura (1999). Observations were done on 112 nights between 1999 August 24 and 2001 June 11. The resulting light curve is shown in Figure 1, which clearly shows long-period variation. Figure 2 shows the folded light curve using the ephemeris $JD(\max) = 2451473 + 212 \times E$ . The figure shows a typical light curve of a Mira-star, having a nearly sinusoidal light curve. In conclusion, GM Sgr is a short-period Mira-type variable star with a period of 212 d.	



**Figure 1.** Light curve of GM Sgr



**Figure 2.** Folded light curve of GM Sgr

<b>Acknowledgements:</b>
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Reference:

Kato, T., Uemura, M., 1999, *IBVS*, No. 4795