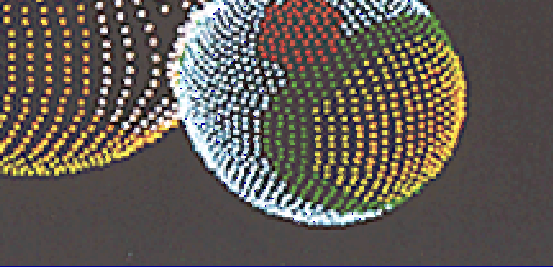


# EW Eclipsing Binaries: Constructing a light curve



# OO Aquilae

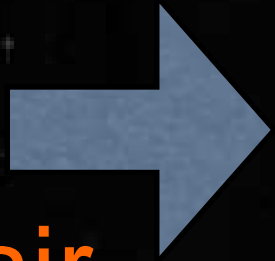
Variation: 9.1 to 10.1 m

Period: 0.5067934 ( Krakow )

Primary Eclipse: 0.8m

Secondary Eclipse: 0.7m

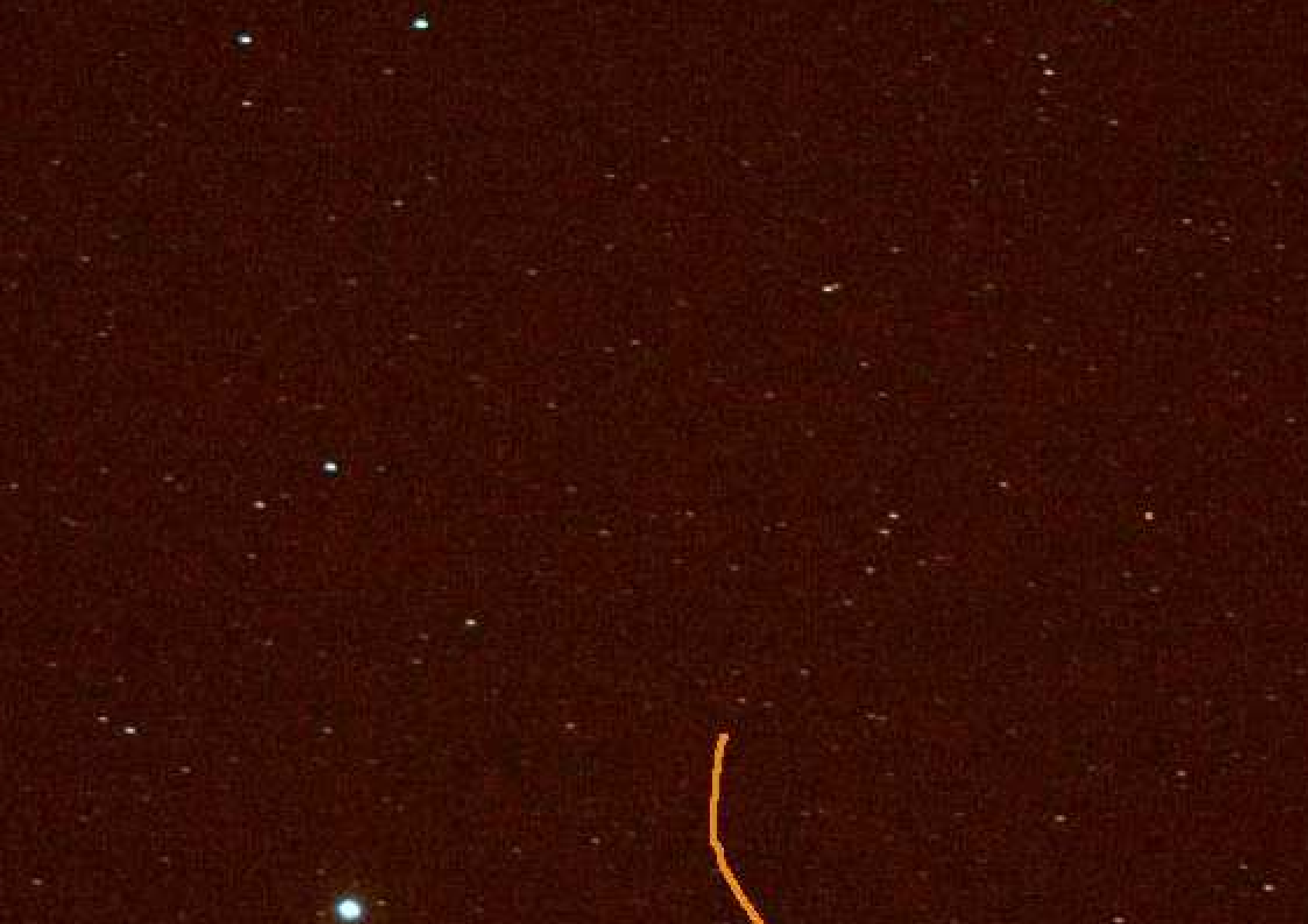
Altair



HD 40307









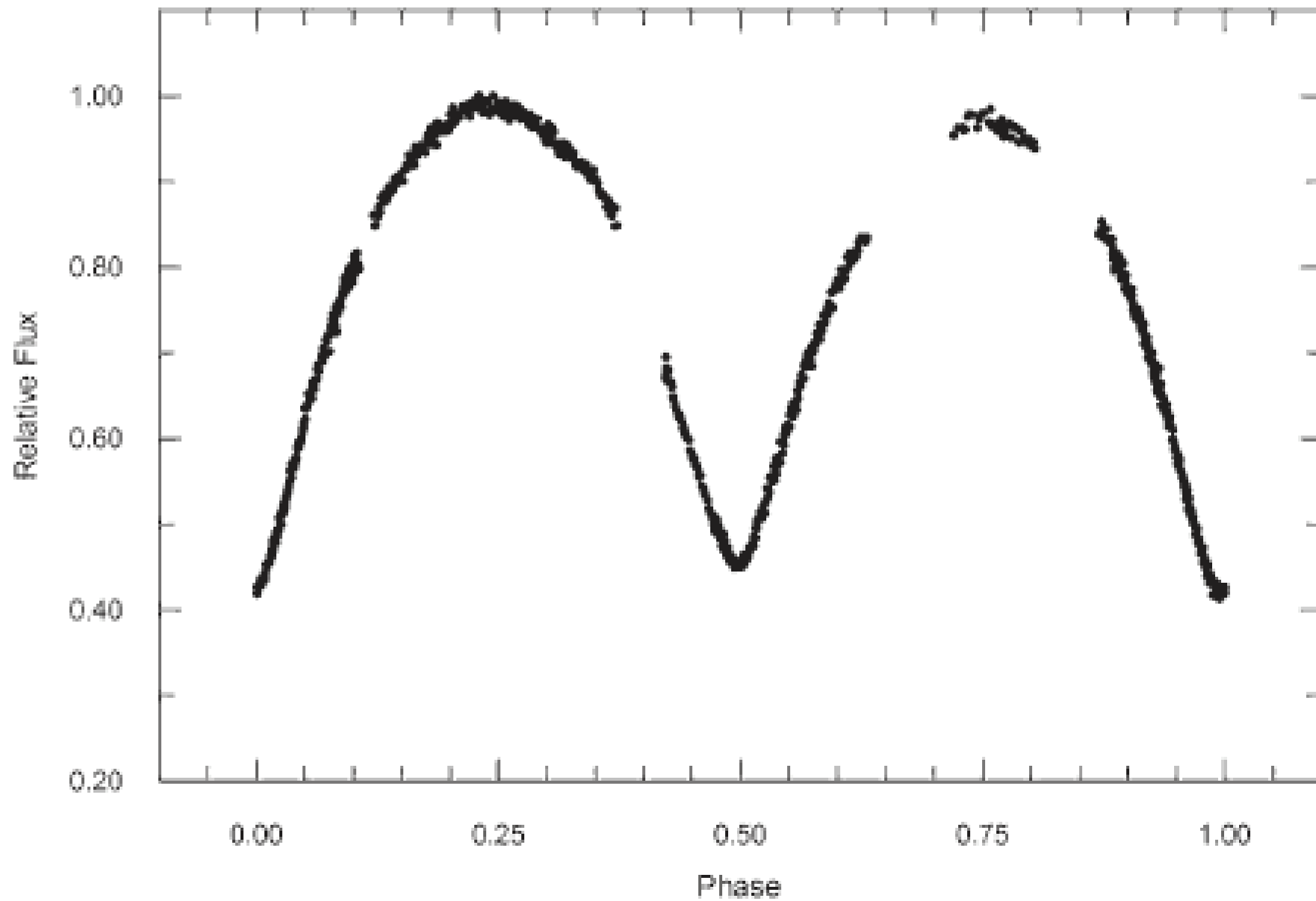
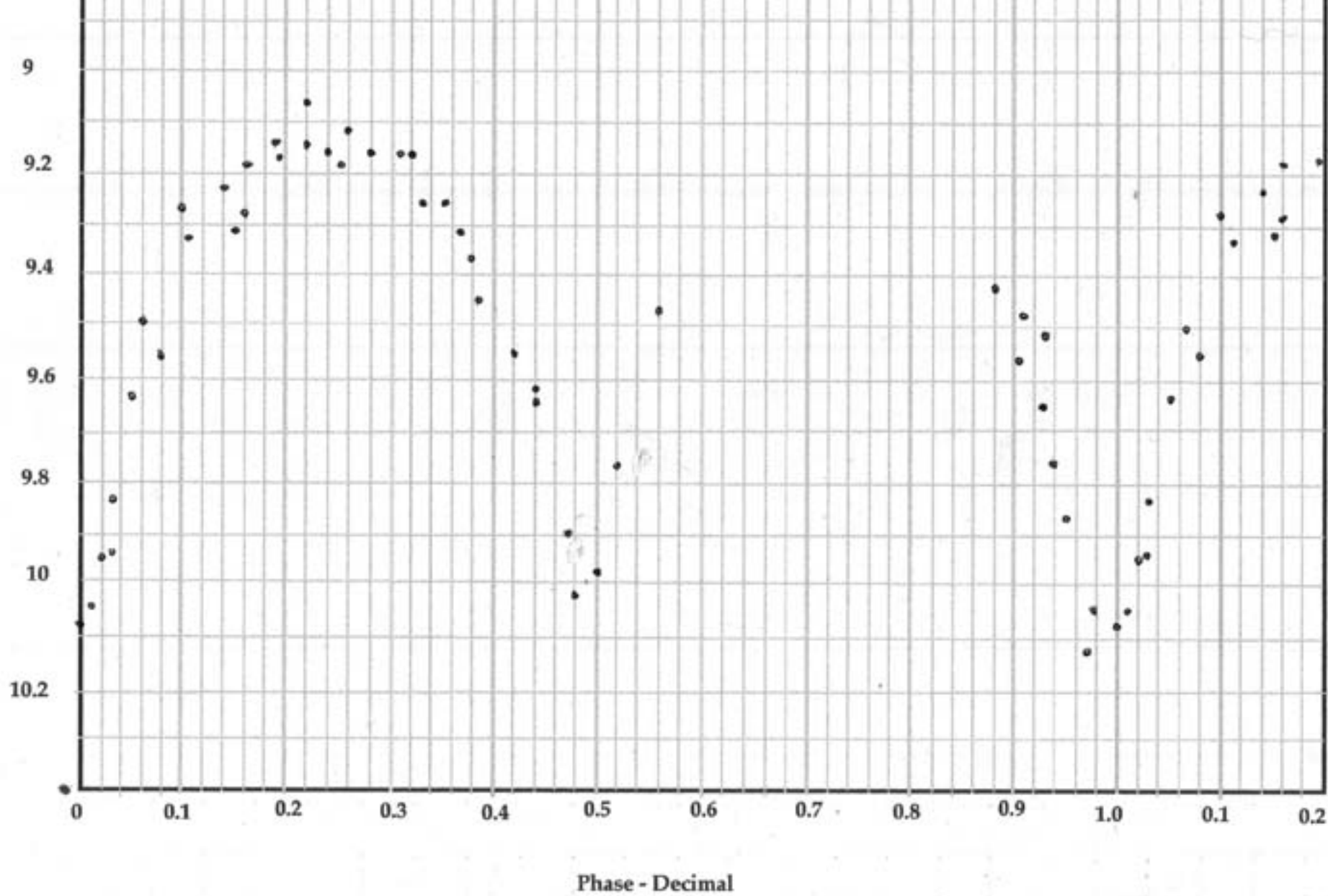


Figure 3. CCD (clear filter) light curve for OO Aql for July–September 2005.

Emission analysis derived period =  $0.50681 \text{ d} \pm 0.00001 \text{ d}$



**OO Aquilae**

00 10 100 1 2 10 100



Epsilon Aurigae 2009 - 2011

The mysterious eclipsing binary -  
27.12 year period

# Epsilon Aurigae 2009 - 2011

Variation 3 to 3.8m

Pulsations in primary ~ 0.2m

Pulsation period ~ 67/95 days

# Epsilon Aurigae 2009 - 2011

## Eclipse Timetable

Start of eclipse - 6/8/09

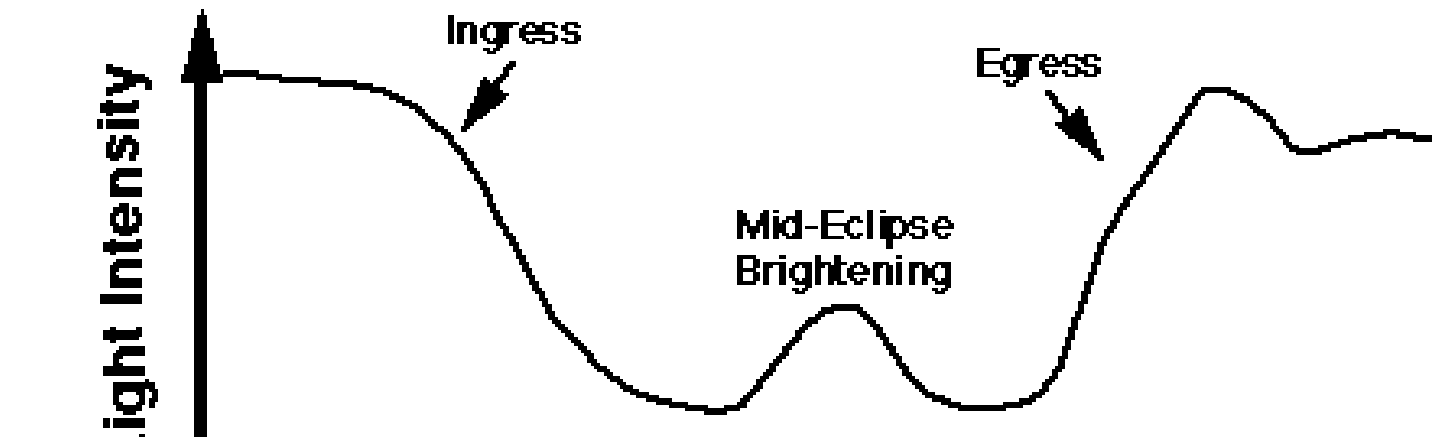
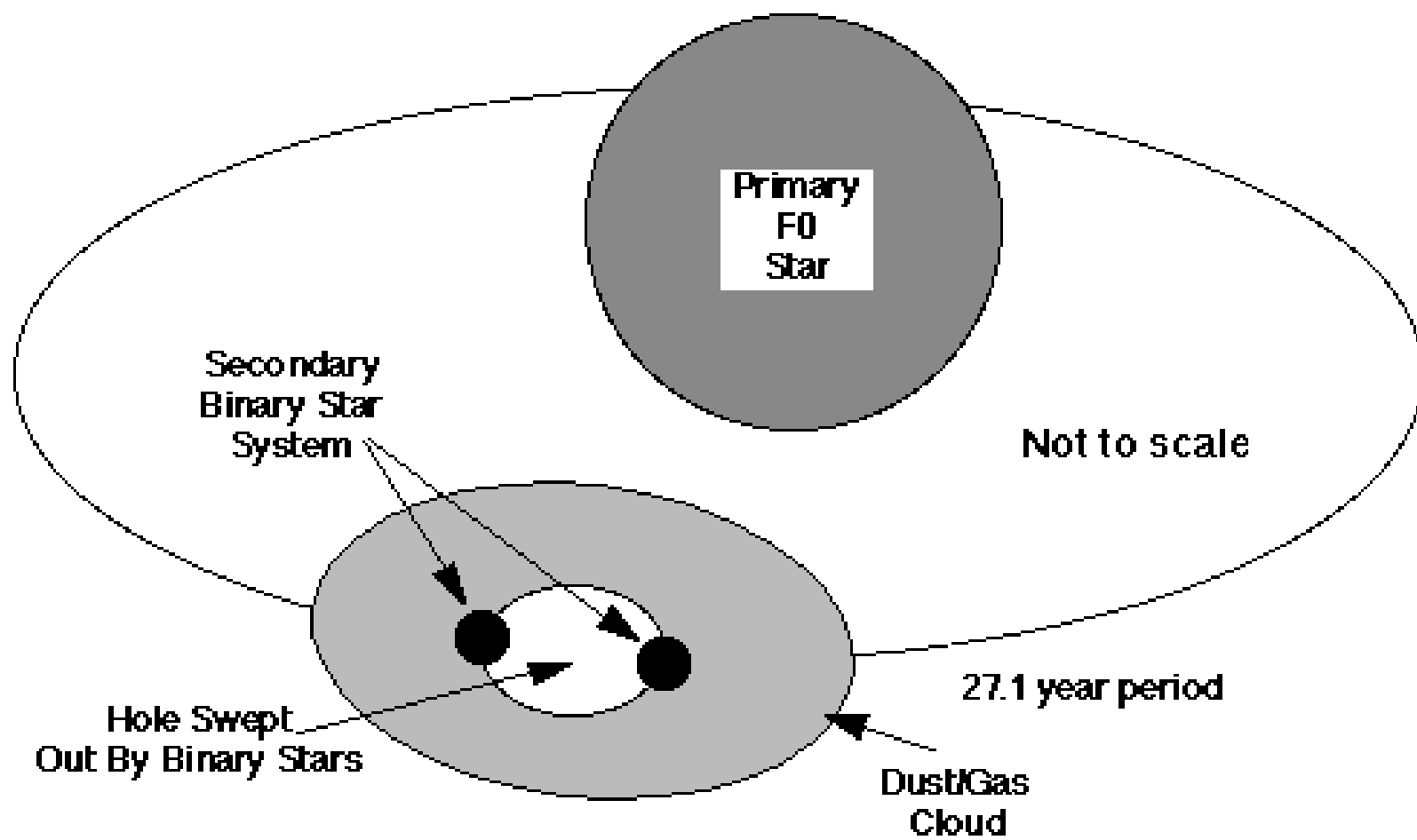
Start of 'totality' - 21/12/09

Mid eclipse - 1/8/10

End of 'totality' - 12/3/11

End of eclipse - 15/5/11







**Zeta Aurigae**

**Period:  
972 days**



Zeta Aurigae

# Zeta Aurigae 2009

Variation in V: 3.7 - 4.0m

Variation in U - 2m

Ingress/ Egress: 1.5 days

Start of eclipse: 2/3/09

Mideclipse: 22/3/09

End of eclipse: 7/4/09



