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ON THE WORK OF THE VARIABLE STAR SECTION,
ROYAL ASTRONOMICAL SOCIETY OF NEW ZEALAND

This Section comprises observers in New Zealand and Australia. Observations are mainly visual although a few members employ photometers. It is hoped to add photo-electric equipment later. My own 16-inch Cassegrain I have lent to the Mount John University Observatory and this is used exclusively on photoelectric observing. Instruments available range up to professionally built reflectors in the 16 inch to 20 inch size.

Stars under observation are given on the attached list. Particular attention is paid to objects south of declination S. 30° with the main emphasis on variables of the classes: -

RV Tauri; Recurrent Novae; Novalike; RW Aur;
U Gem; Z Cam; and Unique.

Observations of other classes are made regularly.

Observations are published in the Circulars of the Section for which the annual subscription is \$US 5.00. Apart from observations papers on certain stars are issued from time to time, either in the Circulars or as reprints.

Flare stars of UV Ceti class are observed in conjunction with the CSIRO, Radiophysics Division, Sydney when the latter required optical observations. Bateson is currently making a survey of potential flare stars to determine which ones are active.

Stranson has photographed all variable star fields south of Declination S. 30° . These photographs form the basis of the charts produced by Bateson, A. F. Jones and Stranson, of which three sets have already been published. These are available at \$US 8.50 per set. The next issue goes to the printers shortly. Ultimately the complete series, totalling ten, will cover all variables, other than those of short period classes, south of declination S. 30° and brighter than visual magnitude 13 at maximum.

Several members observe photographically. The Section is always willing to co-operate on special programmes and has carried out a number of these in the past.

LIST OF VARIABLES UNDER OBSERVATION

ANTLIA	U; X; RR
APUS	S; T; V; X; Z; RR; RT; UZ; VV.
ARA	U; V; W; AT.
CAELUM	R; T.
CANIS MAJOR	Z; UY; UZ.
CAPRICORNUS	RR
CARINA	R; S; Z; RR; RS; RT; RU; RV; RW; RY; RZ; SU; TW; AC; AG; AN; AF; CL; DI; EP; HR; BO; IW; Eta.
CENTAURUS	R; T; U; W; X; RS; RT; RV; RW; RX; SX; TT; UU; UW; WW; AD; CD; DF; DY; BV; MU; NN. V396; V436; V442; V398; V407; V504; V661; V665.
CHAMAELEON	R; T; V; W; Z.
CIRCINUS	B; AE.
COLUMBA	R; S; T.
CORONA AUST.	R; S; T; U; V; W; X; Y; Z; RR; RT; RU; TY; WX; YY; YZ; AM; GG; GR; GY.
CRUX	S; U; V; X.
DELPHINUS	Nova 1967
DORADO	R; U; RZ; ST; SV; Beta.
ERIDANUS	T; U; W; X; Y; RS; RT; RW.
FORNAX	R; U.
GEMINI	U.
GRUS	R; S; T.
HOROLOGIUM	R; S; T; U; RT; SW; SX.

HYDRA	W; RS; RU; EX; FP.
HYDRUS	RS; RY; TU; VW.
INDUS	R; S; T; RZ; SS.
LUPUS	R; S; T; U; X; Y; W; RU; RY; EX.
MICROSCOPIUM	R; S; T; U; V; V.; RS; RX; RY.
M. NOCEROS	CW.
MUSCA	Y; SY.
NORMA	R; T; V; W; X; RT; RZ; HP.
OCTANS	R; S; T; U.
OPHIUCHUS	W; RS; TV; V517.
ORION	CN; CZ; Alpha.
PAVO	R; S; T; U; V; W; X; SU; BR; Kappa.
PHOENIX	R; S; T; U; V; W; RT; SY; SZ.
PICTOR	R; S; T; F.R.
PISCIS AUST.	R; S; U; RY; ST.
PUPPIS	W; Z; RT; RV; RW; SU; TU; AR; AS; AT; CD; CH; FK; L2.
PYXIS	T
RETICULUM	R; T; RV; RX; SU.
SAGITTARIUS	RR; RU; RV; RT; RY; RZ; SW; TY; VZ; WW; AZ; AR; FN; GU; MV; OS; V348; V618; V742; V915; V1016; V1017; HV7864.
SCORPIUS	R; S; U; Z; RS; RR; RT; RU; RW; SV; SW; SX; TV; WW; AC; AD; AE; AG; AH; AI; AK; BH; BI; CL; FQ; LO; LR; MM; V380; V450; Alpha.
SCULPTOR	R; S; T; U; V; X; Y; SW; SY.
SCUTUM	R.
SERPENS	UZ.
TELESCOPIUM	R; T; U; V; W; X; Y; RS; RR; VZ.
TRIANGULUM AUST.	EK.

TUCANA R; S; T; U; TZ; UU; UY; AA.
VELA W; X; Y; Z; RS; RU; RW; SS; SU; SY; TV; WY;
CE; CU.
VIRGO TW
VOLANS R; S; T.

SUSPECTED VARIABLES

SVS Nos. 1668; 1995; 2011; 2144; 2638; 3543;
4467; 4517; 5112;
S 6302; 6322; 6732.
HD Nos. 84046; 124448; 168476.
CPD -71° 2486.
CoD -30° 13622; -30° 13634.

F. M. BATESON
Director
P. O. Box 33, Lake Tekapo
New Zealand