

Fifth supplement to the catalogue of observed periods of Ap stars^{*}

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Abstract. New data on the periods of Ap stars with references are presented. 161 further stars are introduced for which a periodic variability has recently been discovered or it was known before but it was not reported in previous issues of this catalogue. For many stars also present in previous issues of the catalogue new determinations of the periods are given. Recently attributed variable star names are also quoted.

Key words. catalogs – stars: chemically peculiar – stars: early-type – stars: variables: general

1. Introduction

Several new or improved data have appeared in the literature in the last three years to make the updating of the catalogue of observed periods of Ap stars useful.

Some of the results reported here simply confirm or improve a previously known value of the period on the basis of new observations. This is very important for planning observations. However most periods' values are from the HIPPARCOS survey (henceforth referred to simply as *Hipparcos*).

We also report here the variable star names which have been attributed since the publication of the previous update of our catalogue.

2. The Catalogue

The presentation of the data is the same as that adopted in the main catalogue and the supplements (Catalano & Renson 1984, 1988, 1997; Catalano et al. 1991, 1993).

The stars which appear here for the first time are marked with a + before their HD number: we present here 161 such stars, of which 155 are present in Table 1, 1 in Table 2 and 5 in Table 3.

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* Tables 1 to 3 are only available in electronic form at the CDS via anonymous ftp to cdsarc.u-strasbg.fr (130.79.128.5) or via <http://cdsweb.u-strasbg.fr/cgi-bin/qcat?J/A&A/378/113>

As in the previous issues of the catalogue we have marked by asterisks the presence of notes; a double asterisk indicates a new or modified note. Notes are here reported for the newly introduced stars marked with an asterisk and for those marked with a double one. For the stars which were quoted in the previous issues (one asterisk), we do not report here the list of the notes: they can be easily found in Catalano & Renson (1984, 1988, 1997) and in Catalano et al. (1991, 1993).

In the tables some stars are present without references: this means that a variable star name or a new Rns number has been recently attributed or a correction has been introduced, or a new or a modified note has been introduced.

Finally we want to point out that the periods listed in the present supplement, as in the previous issues, are physically linked only with axial rotation (via the oblique rotator model) or eclipses, hence we have not included the very short periods, i.e. those attributed to pulsations or oscillations.

Some stars among the newly introduced ones do not have any HD number (one of them has an HDE number); they are found at the place corresponding to their Rns number, i.e. to their 1900.0 coordinates.

We wish to ask our colleagues working on all aspect of Ap stars to send to F. A. Catalano or P. Renson their results. This would make the task of continuous updating the catalogue easier.

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