



Eugene Magnier <eugene.magnier@gmail.com>

ApJS - Referee's report on AAS17744

steven.crawford@**aas.org** <steven.crawford@**aas.org**>
Reply-To: steven.crawford@**aas.org**, peer.review@**aas.org**
To: eugene@ifa.hawaii.edu
Cc: steven.crawford@**aas.org**

Mon, Jul 1, 2019 at 5:07 PM

July 1, 2019

Dr. Eugene A. Magnier
University of Hawaii at Manoa
Institute for Astronomy
[2680 Woodlawn Drive](#)
Honolulu, HI 96822-1897

Title: Pan-STARRS Pixel Processing : Detrending, Warping, Stacking

Dear Dr. Magnier,

We have received the referee's report on your above submission to The Astrophysical Journal Supplement Series, and it is appended below. As you will see, the referee thinks highly of your work and has only a few suggestions for relatively minor changes.

When you resubmit the manuscript, please include a cover letter in which you outline in detail the specific changes you have made in response to each of the referee's comments.

Click the link below to upload your revised manuscript;

<https://aas.msubmit.net/cgi-bin/main.plex?el=A3KO7Bkq4A7Hlp7J6A9ftdZSHBJEVVH4c1Nm10gis6JwZ>

Alternatively, you may also log into your account at the EJ Press web site, <http://apj.msubmit.net>. Please use your user's login name: emagnier. You can then ask for a new password via the Unknown/Forgotten Password link if you have forgotten your password.

Reviewers find it helpful if the changes in the text of the manuscript are easily distinguishable from the rest of the text. Therefore we ask you to print changes in bold face. The highlighting can be removed easily after the review.

The AAS Journals have adopted a new policy that manuscript files become inactive, and are considered to have been withdrawn, six months after the most recent referee's report goes to the authors, provided a revised version has not been received by that time.

If you have any questions, feel free to contact me.

Sincerely,

Dr. Steven Crawford
AAS Scientific Editor
Space Telescope Science Institute

Referee Report

Reviewer's Comments:

The manuscript "Pan-STARRS Pixel Processing : Detrending, Warping, Stacking" presents an in-depth description of the Pan-STARRS image de-trending steps and image co-addition pipelines for the Pan-STARRS 3pi survey. I found the paper to be clear, and that it makes a good job in reporting the procedures used by the Pan-STARRS team to generate the DR1 products that have been widely used by the astronomy community.

It is clear, not only by the length of this manuscript, that the development of the pipelines and the creation of the DR1 dataset has been a lengthy and heroic effort. Moreover, DR1 which uses the pipelines described here, has been out for

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more than 2 years now. Therefore, I see no point in requesting major changes to the manuscript that would delay further its publication. I have only one minor request. I think that it would be a good help for the casual reader to include 2 flow chart figures in the paper. One for the detrending steps in the single-epoch images, and another for the warping + stacking pipeline.