- VVV SMP review –

RID=Review Item Discrepancy, RIC=Review Item Comment, RIQ=Review Item Question
Please use a separate page per RIx.

Reviewer: ESO Survey Team	
Document No	VVV SMP
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RIx text

EST – Date: 08.03.2007

1. Can the PI clarify who sets the extraction parameters for the source catalogues? Where do the science requirements come into place? Or the PI involvement?

2. A required deliverable will be a photometrically and astrometrically uniform survey: when the survey team gets the basic stacked data from CASU, who does this? Creating a uniform ZP and global astrometry over several hundreds squared degrees is a major undertaking.

EST – Date 07.12.2007

Open issues related to current Review item (RIX) after VISTA PS senior review (22.10.07) and EST report (28.06.07)

See point related to the photometric accuracy in RIX#3 and the management "conflict of loyalties" RIX#4. These open issues are strong concerns for the successful implementation of the VVV survey.

Reply from Survey Team – Date: 22.05.2007
Name: Dante Minniti, Valentin Ivanov, Phil Lucas

1. The source extraction parameters were set by discussion with the whole team. We have decided to use 3 sigma sources in the single epoch images. However, once we have Science Verification data, simple tests will allow us to refine the strategy and set the best extraction parameters for the source catalogues. This will be done by Dante Minniti, Valentin Ivanov, Jura Borissova, Manuela Zoccali, Rodolfo barba, Doug Geisler and Marcio Catelan. The science requirements are simple because this is a variability survey, and they come into place after several epochs have been acquired. The PI is involved at all stages of the project.

2. This seems to be a generic statement that applies to other surveys, but not to ours, because we do not stack the images. Nonetheless we would like to clarify that the photometrically and astrometrically uniform survey will be done by our team as a product of the pipeline. This photometric catalog will be uniform because we will use the 2MASS calibration, which is known to be good to 2% using overlap and repeat observation tests from WFCAM. In addition, astrometry from 2MASS is known to be better than 100 mas for WFCAM surveys, and should not be worse for VISTA.
In principle, we do not need significantly better absolute astrometry and photometry than 2MASS. Our differential astrometry and photometry will however be better, particularly for some selected variable stars and high proper-motion candidates.

Reply to open issues related to current Review item (RIX) after VISTA PS senior review (22.10.07) and EST report (28.06.07)
Name: Dante Minniti, Manuela Zoccali, Marina Rejkuba, Valentin Ivanov, Phil Lucas

We reply to this point in RIX#4, as requested.