![Chandra X-ray Center logo]

# Bugs: reproject_events

## Bugs

1. ***The tool needs one good time interval per chip***

   The tool needs one good time interval (<u>GTI</u>) per chip, otherwise the time for the other CCDs is set to zero. (Most users will never run into this issue.)

2. ***Running `dmcoords` on reprojected event files will result in incorrect chip locations.***

   The *NOM values from the original (unprojected) input file need to be overridden.

3. ***Running the tool on a spatially filtered file does not update the "region" subspace.*** *(23 Mar 2007)*

   The spatial filter is recorded in the file subspace, but it ***is not*** reprojected when `reproject_events` is run. When `reproject_events` changes the sky tangent point, the region in the subspace is "shifted" in the reference frame.

   In many cases, users run into this problem when they do the following order of events:

   1. Use a spatial filter to select certain ACIS chips (e.g. just the ACIS–I array)
   2. Run `reproject_events` on the filtered event file
   3. Attempt to extract spectra with a source list.

   The final output has zero exposure and/or empty GTIs because the source list and the initial, unshifted region filter (stored in the file subspace) don't intersect.

   **Workaround:**

   In CIAO 3.4, you can use the DM subspace–editing capabilities to deleted the filter specification written in the file subspace:

   ```
   unix% dmcopy "reprojected_file.fits[subspace -sky]" reprojected_file_fix.fits
   ```

   An alternative is to run `reproject_events` before applying any spatial filtering.

4. ***No error if matchfile is missing*** *(06 Mar 2007)*

   The tool does not error if the file specified in the "matchfile" parameter is missing.

---