outline of procedure for obtaining reduced chi-squared

start with 5 (for example) sharp-combine binned maps of Q:

Q_i :

and 5 sharp-combine binned maps of σ_Q :

$\sigma_{Q,i}$:

and one cumulative map of Q :

Q_f :

with associated error-bar map :

σ_{Qf} :

-> Mark a (square?) sub-region for which all 6 maps have data.

-> Compute:

$$\chi_r^2 = (N-1)^{-1} \sum (Q_i - Q_f)^2 / \sigma_{Q,i}^2$$

Take the median across the map, compute the same for U, and average the results for Q and U. This is your reduced chi squared for the source. Inflate all of your error bars by the square root of this number.