Subject: HIST_ND() used for resampling point data onto grid
Posted by MarioIncandenza on Sat, 19 Mar 2005 19:25:33 GMT

HIST_ND() is a godsend. Now that I have that, the rest is simple. Yet I can't think of how to do it. The answer, most likely, is somewhere in the HISTOGRAM tutorial, but I have not penetrated that far into its mysteries.

I have DATA(N), with XYT position information given by LON(N),LAT(N), and TIMESTAMP(N). I can break this out beautifully with HIST_ND like so:

```
 hist_xyt=hist_nd(transpose([[mop_lon],[mop_lat],[mop_ts]]),[ 1,1,0.25],$
      min=[-180,-90,154],max=[180,90,243],reverse=ri)
```

Now, I need to get the mean of DATA(N) (and I wouldn't mind getting the variance either)for each bin in HIST_XYT(X,Y,T). I'm 100% confident this can be done without a loop, but my brain is not giving me the answer.

I don't have complete data coverage, so I'll need also to skip empty bins.

Why am I working on a Saturday, anyway?

--Edward Hyer.