```matlab
[filename, pathname] = uigetfile('HAMSR_L1B*.nc', 'Select HAMSR L1B
file');
ncid = netcdf.open([pathname,filename],'NOWRITE');
clear pth fname

time = netcdf.getVar(ncid,0)*netcdf.getAtt(ncid,0,'scale_factor'); %
seconds since 2000-01-01 00:00:00.0 : [time]
lat =
single(netcdf.getVar(ncid,1))*netcdf.getAtt(ncid,1,'scale_factor'); %
Pixel Latitude [-90:90] : [scan x time]
lon =
single(netcdf.getVar(ncid,2))*netcdf.getAtt(ncid,2,'scale_factor'); %
Pixel Longitude [-180:180] : [scan x time]
alt =
single(netcdf.getVar(ncid,3))*netcdf.getAtt(ncid,3,'scale_factor'); %
Aircraft altitude from GPS in meters  : [time]
tb =
single(netcdf.getVar(ncid,4))*netcdf.getAtt(ncid,4,'scale_factor'); %
Calibrated Brightness Temperature [K] :  [channel x scan x time]
eia =
single(netcdf.getVar(ncid,5))*netcdf.getAtt(ncid,5,'scale_factor'); %
Pixel Incidence Angle [0:90] : [scan x time]
AClat =
single(netcdf.getVar(ncid,6))*netcdf.getAtt(ncid,6,'scale_factor'); %
Airplane Latitude [-90:90]  : [time]
AClon =
single(netcdf.getVar(ncid,7))*netcdf.getAtt(ncid,7,'scale_factor'); %
Airplane Longitude [-180:180]  : [time]
roll =
single(netcdf.getVar(ncid,8))*netcdf.getAtt(ncid,8,'scale_factor'); %
Airplane Longitude [-180:180]  : [time]
pitch =
single(netcdf.getVar(ncid,9))*netcdf.getAtt(ncid,9,'scale_factor'); %
Airplane Longitude [-180:180]  : [time]
heading =
single(netcdf.getVar(ncid,10))*netcdf.getAtt(ncid,10,'scale_factor');
% Airplane Longitude [-180:180]  : [time]
try
TAflag =
single(netcdf.getVar(ncid,11))*netcdf.getAtt(ncid,11,'scale_factor');
% TA quality flag [0,1,2] : [time]
end

netcdf.close(ncid);
```