

Can we average a subset of a data, for example weekly averages from an annual time series ?

Yes

Annual -> Weekly

```
function annual_to_weekly ( p[*]:numeric )
; calculate weekly values from a daily time series
begin
  nweek = dimsizes(p)/52 ; 52 weeks/year
  daywk = 7 ; 7 days/week
  week = new ( nweek, typeof(p))
  ndStrt = 0
  ndLast = daywk-1
  do nw=0,nweek-1
    week(nw) = dim_avg_n (p(ndStrt:ndLast) , 0) ; dim_avg, avg also
    ndStrt = ndStrt+daywk
    ndLast = ndLast+daywk
  end do
  week@long_name = "weekly from annual"
  if (isatt(p,"units")) then
    week@units = p@units
  end if
  return(week)
end
```