Subject: Re: Assimilating three files considering their DOY and overpassing time
Posted by Jean H. on Thu, 09 Aug 2007 17:30:30 GMT
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Hi,

Use OPENU instead of OPENW .... the former updates the file while the
later replaces it...

Jean

DirtyHarry wrote:
> G'day, Everyone...!
>
> I made a souce code. It just runs without error messages, but it's not
> yet working properly.
>
> What I am trying to do now is to assimilate two files based on its day
> of year (DOY) and overpassing time (Time).
> In order to do this... I...
>
> 0) prepared an array: total_array = fltarr(13, num_MYD07)
> Column 1~9 : for MYD07
> Column 10~11 : for MYD04
> Column 12~13 : for MCD43
>
> 1) compared the DOY and overpassing time between three data files.
> 1.1) Read MYD07 first because this file has the largest number of
> lines among three.
> 1.2) Then read MYD04 and compare DOY and Time between them.
> - If the contents of DOY and Time of those two files are
> identical -> then add MYD04 values into column 10 and 11.
> If they are different, then add -99.99 to each column.
> 1.3) Do the same for MCD43 into column 12 and 13.
> 2) made an output file.
>
> I coded as shown below. Currently the biggest problem is that IDL only
> print the last line into the designated output file.
>
> Please take a look at this code and give my any comments/suggestions.
> Thank you in advance.
>
> Harry
>
> ---------- -
>
> pro Match_MYD_080907 ; using readcol
>

```
>  close, /all
>  WorkDir = 'D:\OUTPUT\Site72\'
>  site_num = 72
>
>  for id=0, 3 do begin ;site_num-1 do begin
>
>  ;--------------------------
>
>  ;============================
>  ;Counting the number of lines
>  ;============================
>  MYD07 = strcompress(WorkDir + 'MYD07_all_data_TEST_' + string(fix(id
>  +1)) + '.txt',/remove_all)
>  MYD04 = strcompress(WorkDir + 'MYD04_output0801_' + string(fix(id+1))
>  + '.txt',/remove_all)
>  MCD43 = strcompress('D:\MODIS_ALL\MCD43_output_' + string(fix(id+1)) +
>  '.txt',/remove_all)
>
>  num_MYD07 = file_lines(MYD07)
>  num_MYD04 = file_lines(MYD04)
>  num_MCD43 = file_lines(MCD43)
>  ;output file
>  MYD_match = strcompress('MYD_match_TEST' + string(fix(id+1)) + '.txt',/
>  remove_all)
>
>  Readcol, MYD07, format='I, I, I, F, X, F, F, F, F, I', year, doy,
>  time, Ta, OZ, PTOT, PWC, SOLZA, ClearPix
>  Readcol, MYD04, format='A, F, F, F', FileName04, AOT1, AOT2, AOT3
>  Readcol, MCD43, format='A, F, F', FileName43, bsa, wsa
>
>  ; ==================  The contents of each input file
>  ================================
>
>  ; MYD07 -
>   ; year(int:0), doy(int:1), time(int:2), Ta(flt:3), Ea(flt:4), oz(flt:
>  5), ptot(flt:6),pwc(flt:7),solza(flt:8), clearPix(9), $
>  ; year(0,  doy, time+900, Ta,    Ea          OZ,      PTOT
>  PWC,        SOLZA ClearPix
>  ;
>  ; MYD04 -
>  ; filename(Str:0), AOT1(Flt:1), AOT1(Flt:2), AOT1(Flt:3)
>  ;
>  ;MCD43 -
>  ; filename(Str:0), bsa(Flt:1), wsa(Flt:2)
>  ;
>  ;
>   ============================================================
==============
```

```
>
>   total_array = fltarr(13, num_MYD07)
>   for i=0, num_MYD07-1 do begin
>   openw, write_lun, MYD_match, /Get_Lun
>     total_array[0, i] = year[i]
>     total_array[1, i] = DOY[i]
>     total_array[2, i] = time[i]
>     total_array[3, i] = Ta[i]
>     total_array[4, i] = Oz[i]
>     total_array[5, i] = PTOT[i]
>     total_array[6, i] = PWC[i]
>     total_array[7, i] = Solza[i]
>     total_array[8, i] = ClearPix[i]
>
>         check1 = 0
>         check2 = 0
>
>         for k=0, num_MYD04-1 do begin
>           if (DOY[i] eq strmid(FileName04[k],9,11)) and (Time[i] eq
> (strmid(FileName04[k], 13, 16))+900) then begin
>             total_array[ 9,i] = AOT1[k]
>             total_array[10,i] = AOT2[k]
>             check1=1
>
>           endif
>         endfor
>         if check1 eq 0 then begin
>             total_array[ 9,i] = -99.99
>             total_array[10,i] = -99.99
>
>         endif
>         check1=0
>
>         for j = 0, num_MCD43-1 do begin
>            if (DOY[i] eq strmid(FileName43[j],9,11)) and (Time[i] eq
> (strmid(FileName43[j],13,16))+900) then begin
>               total_array[11,i] = bsa[j]
>               total_array[12,i] = wsa[j]
>               check2=1
>
>            endif
>         endfor
>         if check1 eq 0 then begin
>             total_array[11,i] = -99.99
>             total_array[12,i] = -99.99
>         endif
>         check2 = 0
>
```

```
>   ; year(int:0), doy(int:1), time(int:2), ta(flt3), oz(flt:4), ptot(flt:
>  5),pwc(flt:6),solza(flt:7), clearPix(int:8), $
>   ; aot1(flt:9),aot2(flt:10), bsa,(flt:11), wsa(flt:12)
>
>         printf, write_lun, format='(3(F7.1, 2x), 5(F9.2, 2X), F3.1,
>  2x, 4(F8.2, 2X))', total_array[0:12,i]
>         Free_lun, write_lun
>    endfor
>
>  endfor
>  print, "It's OK!'
>
>  end
>
```