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pro read_swath_l1_vis, pattern, cornerlats, cornerlons, rad

FAIL = -1

filename = findfile ( pattern, count = cnt )
if cnt eq 0 then begin
    print, 'findfile did not return any file ', cnt,
pattern
    rad = FAIL
    return
endif
;
; Read the last, supposedly the latest, version if there are
more than one file
;
last = (size(filename))[1]-1
fid=EOS_SW_OPEN(filename[last], /READ)
if fid eq FAIL then begin
    rad = FAIL
    return
endif

SWid=EOS_SW_ATTACH(fid, "L1B_VIS_Science")
if SWid eq FAIL then begin
    print, 'EOS_SW_ATTACH failed'
    rad = FAIL
    return
endif

ret = EOS_SW_READFIELD(SWid,"cornerlats",cornerlats)
ret = EOS_SW_READFIELD(SWid,"cornerlons",cornerlons)
ret = EOS_SW_READFIELD(SWid,"radiances",rad)

ret = EOS_SW_DETACH(SWid)
ret = EOS_SW_CLOSE(fid)

end

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