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netcdf G2011249001539 {
dimensions:
    number_of_lines = 691 ;
    pixels_per_line = 571 ;
    bands_per_pixel = 8 ;
    pixel_control_points = 571 ;
    number_of_bands = 8 ;
    number_of_reflective_bands = 8 ;

// global attributes:
    :title = "GOCI Level-2 Data" ;
    :product_name = "G2011249001539.L2_LAC_OC" ;
    :processing_version = "Unspecified" ;
    :history = "l2gen par=/Users/catherineevans/Desktop/
GOCI_L1/l2gen-tmpParFile8435776920405031278.par" ;
    :instrument = "GOCI" ;
    :platform = "COMS" ;
    :Conventions = "CF-1.6 ACDD-1.3" ;
    :license = "https://science.nasa.gov/earth-science/
earth-science-data/data-information-policy/" ;
    :naming_authority = "gov.nasa.gsfc.sci.oceandata" ;
    :id = "L2/G2011249001539.L2_LAC_OC" ;
    :date_created = "2021-06-15T18:35:38.000Z" ;
    :keywords_vocabulary = "NASA Global Change Master
Directory (GCMD) Science Keywords" ;
    :keywords = "Earth Science > Oceans > Ocean Optics >
Ocean Color" ;
    :standard_name_vocabulary = "CF Standard Name Table
v36" ;
    :institution = "NASA Goddard Space Flight Center,
Ocean Ecology Laboratory, Ocean Biology Processing Group" ;
    :creator_name = "NASA/GSFC/OBPG" ;
    :creator_email = "data@oceancolor.gsfc.nasa.gov" ;
    :creator_url = "https://
oceandata.sci.gsfc.nasa.gov" ;
    :project = "Ocean Biology Processing Group (NASA/
GSFC/OBPG)" ;
    :publisher_name = "NASA/GSFC/OBPG" ;
    :publisher_url = "https://
oceandata.sci.gsfc.nasa.gov" ;
    :publisher_email = "data@oceancolor.gsfc.nasa.gov" ;
    :processing_level = "L2" ;
    :cdm_data_type = "swath" ;
    :spatialResolution = "500 m" ;
    :time_coverage_start = "2011-09-06T00:27:42.600Z" ;
    :time_coverage_end = "2011-09-06T00:31:10.100Z" ;
    :start_center_longitude = 125.3837f ;
    :start_center_latitude = 37.057f ;
    :end_center_longitude = 125.5589f ;
    :end_center_latitude = 33.95756f ;

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        :northernmost_latitude = 37.10717f ;
        :southernmost_latitude = 33.88887f ;
        :easternmost_longitude = 127.1053f ;
        :westernmost_longitude = 123.7766f ;
        :geospatial_lat_units = "degrees_north" ;
        :geospatial_lon_units = "degrees_east" ;
        :geospatial_lat_max = 37.10717f ;
        :geospatial_lat_min = 33.88887f ;
        :geospatial_lon_max = 127.1053f ;
        :geospatial_lon_min = 123.7766f ;
        :startDirection = "Descending" ;
        :endDirection = "Descending" ;
        :day_night_flag = "Day" ;
        :earth_sun_distance_correction = 0.983881294727325 ;

group: sensor_band_parameters {
    variables:
        int wavelength(number_of_bands) ;
            wavelength:long_name = "wavelengths" ;
            wavelength:units = "nm" ;
            wavelength:_FillValue = -32767 ;
            wavelength:valid_min = 0 ;
            wavelength:valid_max = 1000 ;
        float vcal_gain(number_of_reflective_bands) ;
            vcal_gain:long_name = "Vicarious Calibration Gain" ;
            vcal_gain:_FillValue = -32767.f ;
            vcal_gain:valid_min = 0.f ;
            vcal_gain:valid_max = 2.f ;
        float vcal_offset(number_of_reflective_bands) ;
            vcal_offset:long_name = "Vicarious Calibration
Offset" ;
            vcal_offset:units = "mW cm^-2 um^-1 sr^-1" ;
            vcal_offset:_FillValue = -32767.f ;
            vcal_offset:valid_min = 0.f ;
            vcal_offset:valid_max = 10.f ;
        float F0(number_of_reflective_bands) ;
            F0:long_name = "Mean Solar Flux" ;
            F0:units = "W m^-2 um^-1" ;
            F0:_FillValue = -32767.f ;
            F0:valid_min = 0.f ;
            F0:valid_max = 250.f ;
        float aw(number_of_reflective_bands) ;
            aw:long_name = "Band-pass averaged absorption
coefficient for seawater" ;
            aw:units = "m^-1" ;
            aw:standard_name =
"volume_absorption_coefficient_of_radiative_flux_in_sea_water" ;
            aw:_FillValue = -32767.f ;
            aw:valid_min = 0.0001f ;
            aw:valid_max = 5.f ;

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        aw:reference = "Pope, R.M. and Fry, E.S., 1997,
\"Absorption spectrum (380-700 nm) of pure water. II. Integrating
cavity measurements,\" Appl. Opt.,36, 8710-8723.; Kou, L., Labrie, D.,
Chylek, P., 1993, \"Refractive indices of water and ice in the
0.65-2.5 m spectral range,\" Appl. Opt.,32, 3531-3540 (1993).\" ;
        float bbw(number_of_reflective_bands) ;
        bbw:long_name = "Band-pass averaged backscattering
coefficient for seawater" ;
        bbw:units = "m^-1" ;
        bbw:standard_name =
"volume_backwards_scattering_coefficient_of_radiative_flux_in_sea_wate
r" ;
        bbw:_FillValue = -32767.f ;
        bbw:valid_min = 5.e-06f ;
        bbw:valid_max = 1.f ;
        bbw:reference = "Zhang, X., Hu, L., and He, M.-X.
(2009). Scattering by pure seawater: effect of salinity, Opt. Express
17(7)" ;
        bbw:comment = "These are nominal values for a
salinity of 38.4 at 20 degrees C. The bbw values used in the
processing are corrected for temperature and salinity on a per pixel
basis." ;
        float k_oz(number_of_reflective_bands) ;
        k_oz:long_name = "Ozone Absorption cross-sections" ;
        k_oz:units = "cm^-1" ;
        k_oz:_FillValue = -32767.f ;
        k_oz:valid_min = 0.f ;
        k_oz:valid_max = 0.1f ;
        k_oz:reference = "Anderson, S.M., Morton, J., and
Mauersberger, K.. \"Near-infrared absorption spectra of 1603 and 1803:
Adiabatic energy of the 1A2 state?.\" The Journal of Chemical Physics
93.6 (1990): 3826-3832.; Anderson, Stuart M., Maeder, J., and
Mauersberger, K. \"Effect of isotopic substitution on the visible
absorption spectrum of ozone.\" The Journal of chemical physics 94.10
(1991): 6351-6357; http://dx.doi.org/10.1029/92GL00780; http://dx.doi.org/10.1029/93GL01765; http://dx.doi.org/10.1029/93GL02311" ;
        k_oz:comment = "Computed at 229.15K with code
provided by E.P.Shettle, NRL, Washington, DC; Based on the
measurements of: S.Anderson et al. and J. Burkholder and Talukdar
(1994)" ;
        float k_no2(number_of_reflective_bands) ;
        k_no2:long_name = "N02 Absorption cross-sections" ;
        k_no2:units = "cm^2 molecule^-1" ;
        k_no2:_FillValue = -32767.f ;
        k_no2:valid_min = 0.f ;
        k_no2:valid_max = 0.1f ;
        k_no2:reference = "K. Bogumil, et al., \"Measurements
of molecular absorption spectra with the SCIAMACHY pre-flight model:
Instrument characterization and reference data for atmospheric remote
sensing in the 230-2380 nm region,\" J. Photochem. Photobiol. A.:

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Photochem. 157, 167-184 (2003).; W. Schneider, et al., \"Absorption cross-sections of NO₂ in the UV and visible region (200 - 700 nm) at 298 K\", J. Photochem. Photobiol. 40, 195-217 (1987)\" ;

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    float Tau_r(number_of_reflective_bands) ;
        Tau_r:long_name = \"Rayleigh Optical Thickness\" ;
        Tau_r:_FillValue = -32767.f ;
        Tau_r:valid_min = 0.f ;
        Tau_r:valid_max = 0.5f ;
        Tau_r:reference = \"Bodhaine, B.A., Wood, N.B, Dutton,
E.G., Slusser, J.R. (1999). On Rayleigh Optical Depth Calculations, J.
Atmos. Ocean Tech., 16, 1854-1861.\" ;
    } // group sensor_band_parameters
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group: scan_line_attributes {
    variables:
        int year(number_of_lines) ;
            year:long_name = \"Scan year\" ;
            year:units = \"years\" ;
            year:_FillValue = -32767 ;
            year:valid_min = 1900 ;
            year:valid_max = 2100 ;
        int day(number_of_lines) ;
            day:long_name = \"Scan day of year\" ;
            day:units = \"days\" ;
            day:_FillValue = -32767 ;
            day:valid_min = 0 ;
            day:valid_max = 366 ;
        int msec(number_of_lines) ;
            msec:long_name = \"Scan time, milliseconds of day\" ;
            msec:units = \"milliseconds\" ;
            msec:_FillValue = -32767 ;
            msec:valid_min = 0 ;
            msec:valid_max = 86400000 ;
        byte detnum(number_of_lines) ;
            detnum:long_name = \"Detector Number (zero-based)\" ;
            detnum:_FillValue = -1b ;
            detnum:valid_min = 0b ;
            detnum:valid_max = 25b ;
        byte mside(number_of_lines) ;
            mside:long_name = \"Mirror Side (zero-based)\" ;
            mside:_FillValue = -1b ;
            mside:valid_min = 0b ;
            mside:valid_max = 1b ;
        float slon(number_of_lines) ;
            slon:long_name = \"Starting Longitude\" ;
            slon:units = \"degrees_east\" ;
            slon:standard_name = \"longitude\" ;
            slon:_FillValue = -999.f ;
            slon:valid_min = -180.f ;
            slon:valid_max = 180.f ;
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float clon(number_of_lines) ;
    clon:long_name = "Center Longitude" ;
    clon:units = "degrees_east" ;
    clon:standard_name = "longitude" ;
    clon:_FillValue = -999.f ;
    clon:valid_min = -180.f ;
    clon:valid_max = 180.f ;
float elon(number_of_lines) ;
    elon:long_name = "Ending Longitude" ;
    elon:units = "degrees_east" ;
    elon:standard_name = "longitude" ;
    elon:_FillValue = -999.f ;
    elon:valid_min = -180.f ;
    elon:valid_max = 180.f ;
float slat(number_of_lines) ;
    slat:long_name = "Starting Latitude" ;
    slat:units = "degrees_north" ;
    slat:standard_name = "latitude" ;
    slat:_FillValue = -999.f ;
    slat:valid_min = -90.f ;
    slat:valid_max = 90.f ;
float clat(number_of_lines) ;
    clat:long_name = "Center Latitude" ;
    clat:units = "degrees_north" ;
    clat:standard_name = "latitude" ;
    clat:_FillValue = -999.f ;
    clat:valid_min = -90.f ;
    clat:valid_max = 90.f ;
float elat(number_of_lines) ;
    elat:long_name = "Ending Latitude" ;
    elat:units = "degrees_north" ;
    elat:standard_name = "latitude" ;
    elat:_FillValue = -999.f ;
    elat:valid_min = -90.f ;
    elat:valid_max = 90.f ;
float csol_z(number_of_lines) ;
    csol_z:long_name = "Center Solar Zenith Angle" ;
    csol_z:units = "degree" ;
    csol_z:_FillValue = -999.f ;
    csol_z:valid_min = -90.f ;
    csol_z:valid_max = 90.f ;
} // group scan_line_attributes

group: geophysical_data {
    variables:
        short Kd_490(number_of_lines, pixels_per_line) ;
            Kd_490:long_name = "Diffuse attenuation coefficient
at 490 nm, KD2 algorithm" ;
            Kd_490:scale_factor = 0.0002f ;
            Kd_490:add_offset = 0.f ;

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        Kd_490:units = "m^-1" ;
        Kd_490:_FillValue = -32767s ;
        Kd_490:valid_min = 50s ;
        Kd_490:valid_max = 30000s ;
    float Lr(number_of_lines, pixels_per_line, bands_per_pixel) ;
        Lr:long_name = "Rayleigh radiance" ;
        Lr:units = "W m^-2 um^-1 sr^-1" ;
        Lr:_FillValue = -32767.f ;
        Lr:valid_min = 0.f ;
        Lr:valid_max = 200.f ;
    float Lt(number_of_lines, pixels_per_line, bands_per_pixel) ;
        Lt:long_name = "Calibrated TOA radiance" ;
        Lt:units = "W m^-2 um^-1 sr^-1" ;
        Lt:standard_name =
"toa_outgoing_radiance_per_unit_wavelength" ;
        Lt:_FillValue = -32767.f ;
        Lt:valid_min = 0.f ;
        Lt:valid_max = 700.f ;
    float Rrs(number_of_lines, pixels_per_line, bands_per_pixel) ;
        Rrs:long_name = "Remote sensing reflectance" ;
        Rrs:units = "sr^-1" ;
        Rrs:standard_name =
"surface_ratio_of_upwelling_radiance_emerging_from_sea_water_to_downwe
lling_radiative_flux_in_air" ;
        Rrs:_FillValue = -32767.f ;
        Rrs:valid_min = -0.01f ;
        Rrs:valid_max = 0.1f ;
        Rrs:solar_irradiance = 0.f ;
    short angstrom(number_of_lines, pixels_per_line) ;
        angstrom:long_name = "Aerosol Angstrom exponent, 443
to 865 nm" ;
        angstrom:scale_factor = 0.0001f ;
        angstrom:add_offset = 2.5f ;
        angstrom:standard_name =
"aerosol_angstrom_exponent" ;
        angstrom:_FillValue = -32767s ;
        angstrom:valid_min = -30000s ;
        angstrom:valid_max = 5000s ;
    float chlor_a(number_of_lines, pixels_per_line) ;
        chlor_a:long_name = "Chlorophyll Concentration, OCI
Algorithm" ;
        chlor_a:units = "mg m^-3" ;
        chlor_a:standard_name =
"mass_concentration_of_chlorophyll_in_sea_water" ;
        chlor_a:_FillValue = -32767.f ;
        chlor_a:valid_min = 0.001f ;
        chlor_a:valid_max = 100.f ;
        chlor_a:reference = "Hu, C., Lee Z., and Franz, B.A.
(2012). Chlorophyll-a algorithms for oligotrophic oceans: A novel
approach based on three-band reflectance difference, J. Geophys. Res.,

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117, C01011, doi:10.1029/2011JC007395." ;
    short poc(number_of_lines, pixels_per_line) ;
        poc:long_name = "Particulate Organic Carbon, D.
Stramski, 2007 (443/555 version)" ;
        poc:scale_factor = 0.2f ;
        poc:add_offset = 6400.f ;
        poc:units = "mg m-3" ;
        poc:_FillValue = -32767s ;
        poc:valid_min = -32000s ;
        poc:valid_max = -27000s ;
        poc:reference = "Stramski, D., et al. \"Relationships
between the surface concentration of particulate organic carbon and
optical properties in the eastern South Pacific and eastern Atlantic
Oceans.\" Biogeosciences 5.1 (2008): 171-201." ;
    float rhos(number_of_lines, pixels_per_line,
bands_per_pixel) ;
        rhos:long_name = "Surface reflectance" ;
        rhos:standard_name = "surface_albedo" ;
        rhos:_FillValue = -32767.f ;
        rhos:valid_min = -0.05f ;
        rhos:valid_max = 1.f ;
    short solz(number_of_lines, pixels_per_line) ;
        solz:long_name = "Solar Zenith Angle" ;
        solz:scale_factor = 0.00277778f ;
        solz:add_offset = 90.f ;
        solz:units = "degree" ;
        solz:standard_name = "solar_zenith_angle" ;
        solz:_FillValue = -32767s ;
        solz:valid_min = -32400s ;
        solz:valid_max = 32400s ;
    int l2_flags(number_of_lines, pixels_per_line) ;
        l2_flags:long_name = "Level-2 Processing Flags" ;
        l2_flags:valid_min = -2147483648 ;
        l2_flags:valid_max = 2147483647 ;
        l2_flags:flag_masks = 1, 2, 4, 8, 16, 32, 64, 128,
256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144,
524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432,
67108864, 134217728, 268435456, 536870912, 1073741824, -2147483648 ;
        l2_flags:flag_meanings = "ATMFAIL LAND PRODWARN
HIGLINT HILT HISATZEN COASTZ SPARE STRAYLIGHT CLDICE COCCOLITH TURBIDW
HISOLZEN SPARE LOWLW CHLFAIL NAVWARN ABSAER SPARE MAXAERITER MODGLINT
CHLWARN ATMWARN SPARE SEAICE NAVFAIL FILTER SPARE BOWTIEDEL HIPOL
PRODFAIL SPARE" ;
    } // group geophysical_data

group: navigation_data {
    variables:
        float longitude(number_of_lines, pixel_control_points) ;
            longitude:long_name = "Longitude" ;
            longitude:units = "degrees_east" ;

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        longitude:standard_name = "longitude" ;
        longitude:_FillValue = -999.f ;
        longitude:valid_min = -180.f ;
        longitude:valid_max = 180.f ;
    float latitude(number_of_lines, pixel_control_points) ;
        latitude:long_name = "Latitude" ;
        latitude:units = "degrees_north" ;
        latitude:standard_name = "latitude" ;
        latitude:_FillValue = -999.f ;
        latitude:valid_min = -90.f ;
        latitude:valid_max = 90.f ;
    int cntl_pt_cols(pixel_control_points) ;
        cntl_pt_cols:long_name = "Number of Pixel Control
Points" ;
        cntl_pt_cols:_FillValue = -32767 ;
        cntl_pt_cols:valid_min = 0 ;
        cntl_pt_cols:valid_max = 10000 ;
    int cntl_pt_rows(number_of_lines) ;
        cntl_pt_rows:long_name = "Number of Scan Control
Points" ;
        cntl_pt_rows:_FillValue = -32767 ;
        cntl_pt_rows:valid_min = 0 ;
        cntl_pt_rows:valid_max = 10000 ;
    float tilt(number_of_lines) ;
        tilt:long_name = "Sensor tilt angle" ;
        tilt:units = "degree" ;
        tilt:_FillValue = -32767.f ;
        tilt:valid_min = -25.f ;
        tilt:valid_max = 25.f ;

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    // group attributes:
        :gringpointlongitude = 123.7766f, 126.991f,
127.1053f, 124.0124f ;
        :gringpointlatitude = 36.98565f, 37.10706f,
34.00584f, 33.88887f ;
        :gringpointsequence = 1, 2, 3, 4 ;
    } // group navigation_data

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group: processing_control {

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    // group attributes:
        :software_name = "l2gen" ;
        :software_version = "9.5.1-V2020.1" ;
        :source =
"COMS_GOCI_L1B_GA_20110906001644.he5,met_climatology_v2014.hdf,ozone_c
limatology_v2014.hdf,anc_cor_file_28jan2014.nc,morel_fq.nc,aerosol_goc
i,landmask_GMT15ARC.nc,watermask.dat,ETOP01_ocssw.nc,ETOP01_ocssw.nc,i
ce_climatology.hdf,sst_climatology.hdf,sss_climatology_woa2009.hdf,no2
_climatology_v2013.hdf,alpha510_climatology.hdf,taua865_climatology.hd
f,calcite_table.txt,owmc_lut.hdf,water_spectra.dat" ;

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:calibration_data = "" ;
:mask_names = "ATMFAIL, LAND, CLDICE, HILT" ;

group: input_parameters {

    // group attributes:
        :ifile = "/Users/catherineevans/Desktop/GOCI_L1/
COMS_GOCI_L1B_GA_20110906001644.he5" ;
        :ofile = "/Users/catherineevans/Desktop/Seadas/
IO_OCSSW_PARAMS/Output/G2011249001539.L2_LAC_OC" ;
        :l2prod = "Kd_490 Lr Lt Rrs angstrom chlor_a poc rhos
solz" ;

        :oformat = "netCDF4" ;
        :oformat_depth = "8bit" ;
        :calfile = "" ;
        :fqfile = "$OCDATAROOT/common/morel_fq.nc" ;
        :parfile = "" ;
        :cldfile = "" ;
        :geofile = "" ;
        :gmpfile = "" ;
        :viirscalparfile = "" ;
        :metafile = "" ;
        :pversion = "Unspecified" ;
        :suite = "OC" ;
        :eval = "0" ;
        :mode = "0" ;
        :deflate = "4" ;
        :spixl = "1" ;
        :epixl = "-1" ;
        :dpixl = "1" ;
        :sline = "1" ;
        :eline = "-1" ;
        :dline = "1" ;
        :ctl_pt_incr = "1" ;
        :proc_ocean = "1" ;
        :proc_land = "1" ;
        :proc_cloud = "0" ;
        :proc_sst = "0" ;
        :atmocor = "1" ;
        :seawater_opt = "1" ;
        :aermodfile = "$OCDATAROOT/goci/aerosol/
aerosol_goci" ;

        :aer_opt = "-2" ;
        :aer_wave_short = "745" ;
        :aer_wave_long = "865" ;
        :aer_swir_short = "-1" ;
        :aer_swir_long = "-1" ;
        :aer_rrs_short = "-1.00000" ;
        :aer_rrs_long = "-1.00000" ;
        :aer_angstrom = "-999.00000" ;

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:aer_iter_max = "10" ;
:brdf_opt = "7" ;
:gas_opt = "15" ;
:atrem_opt = "0" ;
:atrem_full = "0" ;
:atrem_geom = "0" ;
:atrem_model = "0" ;
:atrem_splitpaths = "0" ;
:iop_opt = "0" ;
:gsm_opt = "0" ;
:gsm_fit = "0" ;
:gsm_adg_s = "0.02061" ;
:gsm_bbp_s = "1.03373" ;
:gsm_aphw = "412.00000, 443.00000, 490.00000,
510.00000, 555.00000, 670.00000, -1.00000, -1.00000" ;
:gsm_aphs = "0.00665, 0.05582, 0.02055, 0.01910,
0.01015, 0.01424, -1.00000, -1.00000" ;
:qaa_adg_s = "0.01500" ;
:qaa_wave = "412, 443, 490, 555, 660" ;
:giop_maxiter = "50" ;
:giop_fit_opt = "1" ;
:giop_aph_opt = "2" ;
:giop_acdom_opt = "1" ;
:giop_anap_opt = "1" ;
:giop_adg_opt = "1" ;
:giop_bbp_opt = "3" ;
:giop_bbnap_opt = "1" ;
:giop_bbph_opt = "1" ;
:giop_rrs_opt = "0" ;
:giop_rrs_diff = "0.33000" ;
:giop_aph_file = "$OCDATAROOT/common/
aph_default.txt" ;
:giop_aph_s = "-1000.00000" ;
:giop_adg_file = "$OCDATAROOT/common/
adg_default.txt" ;
:giop_adg_s = "0.01800" ;
:giop_bbp_file = "$OCDATAROOT/common/
bbp_default.txt" ;
:giop_bbp_s = "-1000.00000" ;
:giop_acdom_file = "" ;
:giop_anap_file = "" ;
:giop_bbph_file = "" ;
:giop_bbnap_file = "" ;
:giop_grd = "0.09490, 0.07940" ;
:giop_wave = "412.0, 443.0, 490.0, 555.0, 660.0,
-1.0, -1.0, -1.0" ;
:giop_rrs_unc = "-1.0, -1.0, -1.0, -1.0,
-1.0, -1.0, -1.0, -1.0" ;
:polfile = "" ;
:pol_opt = "0" ;

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:rad_opt = "0" ;
:vcnnfile = "" ;
:absaer_opt = "0" ;
:sl_pxl = "-1" ;
:sl_frac = "0.2500" ;
:glint_opt = "1" ;
:resolution = "-1" ;
:outband_opt = "2" ;
:cirrus_opt = "0" ;
:oxaband_opt = "0" ;
:filter_opt = "0" ;
:aerfile = "" ;
:tgtfile = "" ;
:met1 = "$OCDATAROOT/common/
met_climatology_v2014.hdf" ;
:met2 = "" ;
:met3 = "" ;
:ozone1 = "$OCDATAROOT/common/
ozone_climatology_v2014.hdf" ;
:ozone2 = "" ;
:ozone3 = "" ;
:anc_profile1 = "" ;
:anc_profile2 = "" ;
:anc_profile3 = "" ;
:anc_aerosol1 = "" ;
:anc_aerosol2 = "" ;
:anc_aerosol3 = "" ;
:anc_cor_file = "$OCDATAROOT/common/
anc_cor_file_28jan2014.nc" ;
:pixel_anc_file = "" ;
:land = "$OCDATAROOT/common/landmask_GMT15ARC.nc" ;
:water = "$OCDATAROOT/common/watermask.dat" ;
:demfile = "$OCDATAROOT/common/ETOP01_ocssw.nc" ;
:elevfile = "$OCDATAROOT/common/ETOP01_ocssw.nc" ;
:elev_auxfile = "" ;
:mldfile = "" ;
:icefile = "$OCDATAROOT/common/ice_climatology.hdf" ;
:sstfile = "$OCDATAROOT/common/sst_climatology.hdf" ;
:sstreftype = "0" ;
:sssfile = "$OCDATAROOT/common/
sss_climatology_woa2009.hdf" ;
:no2file = "$OCDATAROOT/common/
no2_climatology_v2013.hdf" ;
:alphafile = "$OCDATAROOT/common/
alpha510_climatology.hdf" ;
:tauafile = "$OCDATAROOT/common/
taua865_climatology.hdf" ;
:picfile = "$OCDATAROOT/common/calcite_table.txt" ;
:owmcfile = "$OCDATAROOT/common/owmc_lut.hdf" ;
:prodxmlfile = "" ;

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:breflectfile = "" ;
:aerbinfile = "" ;
:geom_per_band = "0" ;
:gain = "0.9726, 0.9520, 0.9258, 0.8974,
0.9007, 0.8719, 0.9430, 1.0000" ;
:gain_unc = "0.0000, 0.000000, 0.000000, 0.000000,
0.000000, 0.000000, 0.000000, 0.000000" ;
:offset = "0.00000, 0.00000, 0.00000, 0.00000,
0.00000, 0.00000, 0.00000, 0.00000" ;
:naermodels = "80" ;
:aermodels = "r30f95v01, r30f80v01, r30f50v01,
r30f30v01, r30f20v01, r30f10v01, r30f05v01, r30f02v01, r30f01v01,
r50f95v01, r50f80v01, r50f50v01, r50f30v01, r50f20v01,
r50f10v01, r50f05v01, r50f02v01, r50f01v01, r70f95v01,
r70f80v01, r70f50v01, r70f30v01, r70f20v01, r70f10v01, r70f05v01,
r70f02v01, r70f01v01, r75f95v01, r75f80v01, r75f50v01,
r75f30v01, r75f20v01, r75f10v01, r75f05v01, r75f02v01, r75f01v01,
r80f95v01, r80f80v01, r80f50v01, r80f30v01, r80f20v01,
r80f10v01, r80f05v01, r80f02v01, r80f01v01, r85f95v01,
r85f80v01, r85f50v01, r85f30v01, r85f20v01, r85f10v01, r85f05v01,
r85f02v01, r85f01v01, r90f95v01, r90f80v01, r90f50v01,
r90f30v01, r90f20v01, r90f10v01, r90f05v01, r90f02v01, r90f01v01,
r95f95v01, r95f80v01, r95f50v01, r95f30v01, r95f20v01,
r95f10v01, r95f05v01, r95f02v01, r95f01v01, r95f00v01" ;
:taua = "0.0000, 0.0000, 0.0000, 0.0000,
0.0000, 0.0000, 0.0000, 0.0000" ;
:aermodrat = "0.00000" ;
:aermodmin = "-1" ;
:aermodmax = "-1" ;
:cloud_wave = "865.000" ;
:cloud_thresh = "0.027" ;
:cloud_eps = "-1.000" ;
:cirrus_thresh = "-1.00000, -1.00000" ;
:absaer = "0.000" ;
:rhoamin = "0.00020" ;
:nlwmin = "0.150" ;
:hipol = "0.500" ;
:wsmmax = "12.000" ;
:coccolith = "1.1000, 0.9000, 0.7500, 1.8500,
1.0000, 1.6500, 0.6000, 1.1500" ;
:tauamax = "0.300" ;
:epsmin = "0.800" ;
:epsmax = "1.350" ;
:glint_thresh = "0.005" ;
:windspeed = "-1000.000" ;
:windangle = "-1000.000" ;
:pressure = "-1000.000" ;
:ozone = "-1000.000" ;
:watervapor = "-1000.000" ;
:relhumid = "-1000.000" ;

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:ice_threshold = "0.100" ;
:sunzen = "70.000" ;
:satzen = "60.000" ;
:maskland = "1" ;
:maskbath = "0" ;
:maskcloud = "1" ;
:maskglint = "0" ;
:masksunzen = "0" ;
:masksatzen = "0" ;
:maskhilt = "1" ;
:maskstlight = "0" ;
:mumm_alpha = "1.945" ;
:mumm_gamma = "1.000" ;
:mumm_epsilon = "1.000" ;
:chloc2_wave = "489, 555" ;
:chloc2_coef = "0.25110, -2.08530, 1.50350,
-3.17470, 0.33830" ;
:chloc3_wave = "443, 489, 555" ;
:chloc3_coef = "0.25150, -2.37980, 1.58230,
-0.63720, -0.56920" ;
:chloc4_wave = "-1, -1, -1, -1" ;
:chloc4_coef = "0.00000, 0.00000, 0.00000,
0.00000, 0.00000" ;
:kd2_wave = "490, 555" ;
:kd2_coef = "0.01660, -0.85150, -1.82630, 1.87140,
-2.44140, -1.06900" ;
:flh_offset = "0.00000" ;
:btfile = "" ;
:sstcoefffile = "" ;
:dsdcoefffile = "" ;
:sstssesfile = "" ;
:sst4coefffile = "" ;
:sst4ssesfile = "" ;
:sst3coefffile = "" ;
:sst3ssesfile = "" ;
:vcal_opt = "-1" ;
:vcal_nlw = "0.0000, 0.0000, 0.0000, 0.0000,
0.0000, 0.0000, 0.0000, 0.0000" ;
:vcal_lw = "0.0000, 0.0000, 0.0000, 0.0000,
0.0000, 0.0000, 0.0000, 0.0000" ;
:vcal_chl = "-1.0000" ;
:vcal_solz = "-1.0000" ;
:vcal_depth = "-1000.0000" ;
:vcal_min_nbin = "4" ;
:vcal_min_nscene = "3" ;
:xcalfile = "" ;
:xcal_opt = "0" ;
:xcal_wave = "-1.0000" ;
:band_shift_opt = "0" ;
:add_ws_noise = "-1.0000" ;

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: add_wd_noise = "-1.0000" ;
: add_mw_noise = "-1.0000" ;
: add_zw_noise = "-1.0000" ;
: add_rh_noise = "-1.0000" ;
: add_pr_noise = "-1.0000" ;
: add_wv_noise = "-1.0000" ;
: add_oz_noise = "-1.0000" ;
: add_no2_strat_noise = "-1.0000" ;
: add_no2_tropo_noise = "-1.0000" ;
: add_lt_noise = "0.0000" ;
: lt_noise_scale = "1.0000, 1.0000, 1.0000, 1.0000,
1.0000, 1.0000, 1.0000, 1.0000" ;
: bias_frac = "0.0000, 0.0000, 0.0000, 0.0000, 0.0000,
0.0000, 0.0000, 0.0000" ;
: stype = "0" ;
: datamin = "0.0100" ;
: datamax = "0.9000" ;
: north = "37.0000" ;
: south = "34.0000" ;
: east = "127.0000" ;
: west = "124.0000" ;
: xbox = "-1" ;
: ybox = "-1" ;
: raman_opt = "0" ;
: width = "600" ;
: threshold = "0.1000" ;
: rgb = "1, 1, 1" ;
: subsamp = "1" ;
: viirsnv7 = "-1" ;
: viirsnosisaf = "0" ;
: sstrefdif = "1.2500" ;
: newavhrrcal = "0" ;
: ch22detcor = "1.000000, 1.000000, 1.000000,
1.000000, 1.000000, 1.000000, 1.000000,
1.000000" ;
: ch23detcor = "1.000000, 1.000000, 1.000000,
1.000000, 1.000000, 1.000000, 1.000000,
1.000000" ;
: water_spectra_file = "$OCDATAROOT/common/
water_spectra.dat" ;
} // group input_parameters

group: flag_percentages {

    // group attributes:
    : ATMFAIL = 0.002534462f ;
    : LAND = 16.90182f ;
    : PRODWARN = 0.3502627f ;
    : HIGLINT = 0.f ;
    : HILT = 0.f ;

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        :HISATZEN = 0.f ;
        :COASTZ = 31.4471f ;
        :SPARE = 0.f ;
        :STRAYLIGHT = 0.f ;
        :CLDICE = 6.527001f ;
        :COCCOLITH = 4.03233f ;
        :TURBIDW = 9.824843f ;
        :HISOLZEN = 0.f ;
        :LOWLW = 0.2562341f ;
        :CHLFAIL = 0.5428818f ;
        :NAVWARN = 0.f ;
        :ABSAER = 0.f ;
        :MAXAERITER = 0.619676f ;
        :MODGLINT = 0.f ;
        :CHLWARN = 0.02154293f ;
        :ATMWARN = 10.92252f ;
        :SEAICE = 0.f ;
        :NAVFAIL = 0.f ;
        :FILTER = 0.f ;
        :BOWTIEDEL = 0.f ;
        :HIPOL = 0.f ;
        :PRODFAIL = 23.26231f ;
    } // group flag_percentages
} // group processing_control
}

```