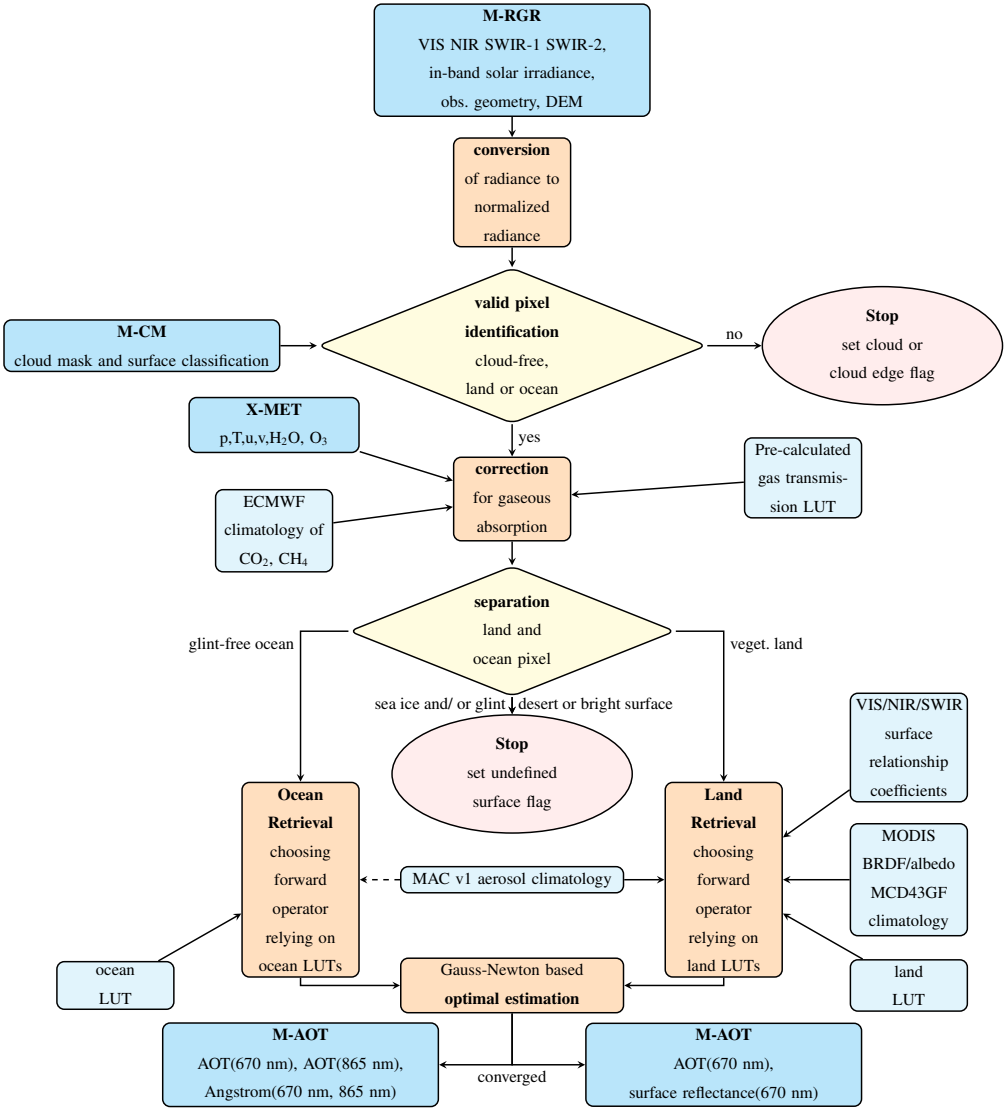
M-RGR
VIS NIR SWIR-1 SWIR-2,
in-band solar irradiance,
obs. geometry, DEM
conversion
of radiance to
normalized
radiance
valid pixel
identification
cloud-free,
land or ocean
M-CM
cloud mask and surface classification
no
Stop
set cloud or
cloud edge flag
yes
X-MET
p,T,u,v,H2O, O3
correction
for gaseous
absorption
Pre-calculated
gas transmis-
sion LUT
ECMWF
climatology of
CO2, CH4
separation
land and
ocean pixel
glint-free ocean
veget. land
sea ice and/ or glint
desert or bright surface
Stop
set undefined
surface flag
VIS/NIR/SWIR
surface
relationship
coefficients
Ocean
Retrieval
choosing
forward
operator
relying on
ocean LUTs
MAC v1 aerosol climatology
Land
Retrieval
choosing
forward
operator
relying on
land LUTs
MODIS
BRDF/albedo
MCD43GF
climatology
ocean
LUT
Gauss-Newton based
optimal estimation
land
LUT
M-AOT
AOT(670 nm), AOT(865 nm),
Angstrom(670 nm, 865 nm)
converged
M-AOT
AOT(670 nm),
surface reflectance(670 nm)