

L1B irradiance

GEMS HCHO  
algorithm

L1B radiance  
reference

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Use radiance  
reference?

Reference  
spectra

GEMS  
bandpass  
function

L2 cloud fraction  
& cloud pressure

L2 AOD & SSA

AMF lookup  
table

Use aerosol  
correction?

L2 surface albedo

L2 HCHO vertical  
column

Start/end

Data

Stored  
data

Decision