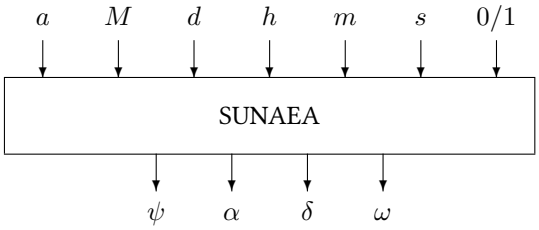
Block SUNAEA

Warning: The explicit usage of this block is deprecated, because it uses a west-positive convention for longitudes.

Please use SUNAEA2 instead, with east-positive longitudes. SUNAEA is still used internally by SUNAEA2.

The SUNAEA block calculates the averaged position of the Sun in horizon and equator coordinates.





Model,
φ, λ, Z

Name	SUNAEA
Function	em0020
Inputs	7
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Group	S

Inputs

1	Year a (for example 2002)
2	Month $M \in [1, 12]$
3	Day $d \in [1, 31]$
4	Hour $h \in [0, 23]$
5	Minute $m \in [0, 59]$
6	Second $s \in [0, 60)$
7	Daylight saving time (0 no, 1 yes)

Outputs

1	Azimuth ψ (north $= 0°$, east $= 90° \ldots$ west $= 270°$)
2	Elevation α
3	Declination δ
4	Hour angle