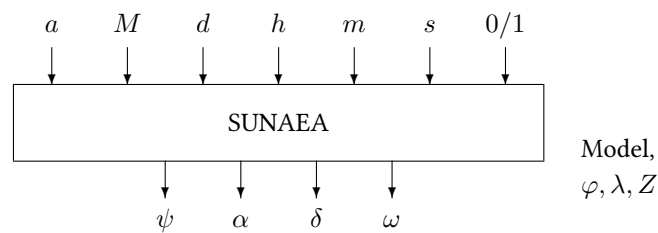


Block SUNAEA

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.



Name	SUNAEA
Function	em0020
Inputs	7
Outputs	4
Parameters	4
Strings	0
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° ... west = 270°)
- 2 Elevation α
- 3 Declination δ
- 4 Hour angle