R version 4.3.1 (2023-06-16) -- "Beagle Scouts"

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Platform: x86\_64-apple-darwin20 (64-bit)

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Natural language support but running in an English locale

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Type 'contributors()' for more information and

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Type 'demo()' for some demos, 'help()' for on-line help, or

'help.start()' for an HTML browser interface to help.

Type 'q()' to quit R.

Error: 1:1: unexpected '>'

1: >

^

[R.app GUI 1.79 (8238) x86\_64-apple-darwin20]

[History restored from /Users/gaellemuller-greven/.Rapp.history]

> library(tidyr)

> library(dplyr)

Attaching package: ‘dplyr’

The following objects are masked from ‘package:stats’:

filter, lag

The following objects are masked from ‘package:base’:

intersect, setdiff, setequal, union

> library(ncdf4)

> library(ggplot2)

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nc4\_files.R")

[1] "time\_bnds" "Swnet\_tavg" "Lwnet\_tavg" "Qle\_tavg" "Qh\_tavg" "Qg\_tavg"

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100501.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100521.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100521.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100522.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100522.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100522.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100524.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100524.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100525.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100527.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100611.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100611.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100611.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100612.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100612.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100612.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100622.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100622.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100624.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100624.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100625.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100627.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100627.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100713.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100716.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100716.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100724.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100823.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100823.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100824.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100824.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100824.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100826.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100826.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100826.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100827.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100827.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100829.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100829.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100924.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100926.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100926.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100927.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100927.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20100929.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101026.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101026.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101028.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101029.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101029.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101104.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101108.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101108.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101116.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101116.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101118.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101125.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101125.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101126.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101126.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101126.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101127.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101127.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101216.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101216.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101217.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101217.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101217.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101217.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101217.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101218.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101218.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101218.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101218.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101219.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101219.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101219.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101219.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101220.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101220.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101221.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101221.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101227.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101227.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101227.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101227.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101228.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101228.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101228.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101230.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101230.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20101230.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110107.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110107.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110108.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110108.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110118.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110127.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110128.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110128.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110128.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110128.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110128.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110128.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110129.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110129.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110129.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110129.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110130.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110130.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110130.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110130.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110131.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110131.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110131.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110217.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110217.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110218.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110218.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110218.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110218.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110219.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110219.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110219.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110219.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110219.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110219.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110220.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110220.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110220.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110221.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110221.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110221.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110228.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110228.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110331.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110401.0000.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110403.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110403.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110414.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110421.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110421.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110422.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110422.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110422.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110424.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110424.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110522.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110523.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110523.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110523.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110523.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110523.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110524.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110524.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110525.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110526.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110526.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110526.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110527.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110529.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110612.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110616.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110616.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110624.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110624.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110724.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110724.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110724.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110725.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110725.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110725.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110726.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110726.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110726.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110726.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110726.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110727.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110727.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110727.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110728.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110728.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110728.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110729.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110729.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110730.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110814.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110815.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110816.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110816.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110818.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110825.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110826.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110826.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110826.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110826.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110826.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110827.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110827.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110827.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110827.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110827.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110827.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110828.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110828.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110828.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110828.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110828.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110828.1500.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110829.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110829.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110829.0900.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110831.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110831.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110904.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110904.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110906.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110914.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110915.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110915.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110915.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110915.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110916.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110916.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110916.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110916.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110917.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110918.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110918.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110918.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110925.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110926.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110926.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110926.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110927.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110928.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110929.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20110929.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111005.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111005.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111006.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111006.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111006.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111008.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111026.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111026.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111026.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111027.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111027.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111027.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111028.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111028.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111029.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111107.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111116.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111116.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111116.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111117.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111117.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111117.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111118.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111118.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111118.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111119.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111119.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111119.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111120.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111120.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111120.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111126.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111202.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111207.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111208.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111208.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111218.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111218.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111218.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111219.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111219.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111219.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111221.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111221.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111222.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111222.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111228.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111228.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111228.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111229.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111229.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111229.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111229.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111229.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111230.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111230.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111230.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111230.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111231.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111231.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20111231.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120101.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120101.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120102.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120102.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120119.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120129.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120129.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120129.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120130.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120130.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120131.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120131.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120202.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120304.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120306.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120312.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120411.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120411.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120411.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120412.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120412.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120412.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120422.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120422.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120422.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120424.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120424.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120424.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120426.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120426.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120427.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120427.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120513.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120516.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120516.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120524.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120527.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120606.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120606.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120623.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120623.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120624.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120624.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120624.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120625.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120626.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120626.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120626.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120627.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120627.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120627.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120628.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120628.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120629.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120629.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120714.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120714.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120715.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120715.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120715.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120716.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120716.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120716.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120718.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120718.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120718.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120726.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120726.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120726.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120727.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120727.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120728.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120729.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120729.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120816.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120818.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120826.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120826.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120826.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120827.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120828.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120829.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120829.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120905.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120905.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120906.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120916.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120916.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120918.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120925.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120926.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120926.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120926.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120928.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120929.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120929.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20120929.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121028.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121028.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121031.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121106.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121107.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121108.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121108.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121108.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121108.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121108.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121111.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121111.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121111.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121112.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121112.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121112.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121113.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121113.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121117.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121118.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121218.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121218.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121218.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121219.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121219.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121219.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121221.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121221.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121221.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121221.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121221.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121221.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121222.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121222.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121222.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121224.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20121229.0000.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130220.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130302.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130304.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130304.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130305.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130307.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130307.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130312.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130312.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130313.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130316.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130316.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130323.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130326.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130326.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130326.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130403.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130403.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130403.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130406.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130423.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130423.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130423.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130424.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130424.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130424.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130426.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130426.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130427.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130427.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130429.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130429.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130525.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130525.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130525.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130525.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130525.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130526.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130526.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130527.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130528.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130528.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130528.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130529.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130531.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130614.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130615.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130615.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130615.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130616.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130616.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130616.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130618.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130618.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130618.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130626.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130626.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130629.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130629.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130705.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130705.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130706.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130706.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130706.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130708.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130708.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130708.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130711.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130726.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130726.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130726.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130727.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130727.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130727.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130728.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130728.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130728.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130728.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130728.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130729.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130729.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130729.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130730.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130730.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130730.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130730.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130731.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130731.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130731.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130816.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130816.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130816.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130816.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130817.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130818.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130818.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130818.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130827.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130828.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130828.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130828.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130828.0900.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130828.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130829.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130829.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130829.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130829.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130829.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130830.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130830.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130830.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130830.0900.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130831.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130916.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130917.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130917.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130917.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130917.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130917.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130918.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130918.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130918.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130919.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130919.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130919.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130920.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130920.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130927.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130928.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130928.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130928.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130929.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130929.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130929.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20130930.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131001.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131028.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131028.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131029.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131029.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131029.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131031.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131101.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131118.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131118.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131119.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131119.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131119.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131119.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131120.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131120.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131120.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131121.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131121.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131129.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131129.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131129.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131130.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131130.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131202.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131202.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131203.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131203.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131222.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131222.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131230.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131231.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131231.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20131231.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140120.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140120.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140120.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140121.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140121.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140121.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140121.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140121.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140121.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140122.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140122.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140122.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140122.0900.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140123.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140123.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140123.0600.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140123.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140123.1200.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140124.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140124.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140124.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140124.0900.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140125.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140125.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140125.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140126.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140126.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140127.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140226.0000.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140303.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140303.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140303.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140304.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140304.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140304.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140305.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140305.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140305.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140306.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140306.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140306.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140306.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140307.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140307.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140308.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140309.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140315.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140315.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140318.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140318.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140324.1200.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140326.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140326.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140424.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140425.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140425.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140425.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140425.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140426.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140426.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140426.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140426.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140427.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140427.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140428.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140428.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140428.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140428.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140429.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140429.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140429.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140515.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140515.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140516.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140516.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140516.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140518.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140518.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140526.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140527.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140527.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140528.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140528.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140528.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140529.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140529.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140529.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140530.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140605.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140605.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140605.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140606.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140606.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140606.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140608.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140608.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140608.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140616.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140616.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140616.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140618.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140618.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140618.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140619.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140626.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140626.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140626.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140626.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140626.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140627.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140627.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140627.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140628.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140628.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140628.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140628.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140628.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140629.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140629.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140629.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140629.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140629.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140630.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140630.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140630.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140707.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140708.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140708.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140711.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140718.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140718.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140727.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140728.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140729.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140729.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140729.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140729.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140730.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140730.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140730.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140730.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140730.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140731.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140731.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140731.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140731.0900.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140801.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140801.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140801.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140802.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140802.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140817.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140817.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140818.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140818.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140818.0600.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140818.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140818.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.0900.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140819.2100.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140820.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140820.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140820.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140820.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140820.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140821.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140821.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140822.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140822.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140822.0600.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140822.0900.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140828.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140829.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140829.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140829.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140830.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140830.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140830.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140830.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140831.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140831.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140831.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140907.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140908.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140908.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140908.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140911.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140912.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140918.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140918.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140918.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140918.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140918.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140918.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140918.2100.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140919.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140919.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140919.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140919.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140920.0000.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140920.0300.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140921.0300.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140921.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140921.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140922.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140922.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140922.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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Error in R\_nc4\_close: NetCDF: Not a valid ID

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140928.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140928.1500.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140928.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140928.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140929.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140929.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140929.0600.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140929.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140929.1200.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140929.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140930.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140930.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140930.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140930.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20140930.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.0600.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.0900.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.1200.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.1500.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.1800.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141001.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141002.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141002.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141002.0600.021.nc4"

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Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141003.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141003.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141004.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141004.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141004.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141008.0600.021.nc4"

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[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.0600.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.0900.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.1200.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.1500.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141030.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.0000.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.0300.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.0600.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.0900.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.1200.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.1500.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.1800.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

[1] "Extracting data from nc4 file: /Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/nc\_files/GLDAS/GLDAS\_CLSM10\_3H.A20141031.2100.021.nc4"

Error in R\_nc4\_close: NetCDF: Not a valid ID

>

>

> dim(nc\_data\_combined)

[1] 13140 42

> head(as.data.frame(nc\_data\_combined), 20)

time\_bnds Swnet\_tavg Lwnet\_tavg Qle\_tavg Qh\_tavg Qg\_tavg Snowf\_tavg Rainf\_tavg Evap\_tavg Qs\_acc Qsb\_acc Qsm\_acc

1 5432760 268.4716797 -45.4809570 119.08752 109.504478 -5.419468 0 2.848888e-04 4.828199e-05 1.774642e-01 0 0

2 5432940 24.7378178 -19.2266407 53.95691 3.134354 -51.506062 0 7.800000e-05 2.187590e-05 4.131556e-02 0 0

3 5433120 0.0000000 -34.0924072 30.67890 -18.018633 -46.728649 0 0.000000e+00 1.243823e-05 0.000000e+00 0 0

4 5433300 0.0000000 -39.7368660 21.73386 -24.353048 -37.109249 0 0.000000e+00 8.811622e-06 0.000000e+00 0 0

5 5433480 0.2000615 -6.4101577 23.56859 -5.971446 -23.811323 0 0.000000e+00 9.555479e-06 0.000000e+00 0 0

6 5433660 70.8582840 -8.3472366 34.21831 34.942982 -6.731663 0 5.555557e-07 1.387323e-05 7.240216e-06 0 0

7 5433840 263.0682983 -22.0264893 66.80898 148.810013 25.387543 0 0.000000e+00 2.708655e-05 0.000000e+00 0 0

8 5434020 359.6150208 -35.5547066 83.14443 213.669998 27.296217 0 2.111112e-06 3.370949e-05 3.286562e-05 0 0

9 5434200 176.8383331 -22.5186863 71.95627 89.054840 -6.678621 0 2.317778e-04 2.917343e-05 1.376233e-01 0 0

10 5434380 17.6625481 -6.3796334 41.51348 -2.995325 -27.189421 0 9.655556e-05 1.683093e-05 5.269258e-02 0 0

11 5434560 0.0000000 -13.3969908 25.84250 -9.815419 -29.405470 0 4.444445e-06 1.047740e-05 4.881379e-04 0 0

12 5434740 0.0000000 -37.5849876 17.49850 -19.919928 -35.131405 0 2.555556e-06 7.094465e-06 2.701170e-04 0 0

13 5434920 0.7054393 -19.1394882 18.86508 -6.610434 -30.684278 0 3.444445e-06 7.648522e-06 3.751100e-04 0 0

14 5435100 77.4966965 -28.6381130 33.49654 28.325315 -13.006091 0 2.366666e-05 1.358060e-05 9.002524e-03 0 0

15 5435280 278.4396973 -25.6633434 70.13691 151.284805 31.255308 0 1.633333e-05 2.843580e-05 5.115220e-03 0 0

16 5435460 456.9861145 -37.3245583 99.08487 261.041718 59.469852 0 2.777778e-06 4.017225e-05 6.082677e-05 0 0

17 5435640 204.6980438 -30.0151882 65.07273 100.713371 8.984942 0 0.000000e+00 2.638262e-05 0.000000e+00 0 0

18 5435820 40.9736061 -19.9575386 33.34375 11.384999 -23.653555 0 0.000000e+00 1.351865e-05 0.000000e+00 0 0

19 5436000 0.0000000 0.8871574 22.47072 2.264086 -23.834623 0 0.000000e+00 9.110367e-06 0.000000e+00 0 0

20 5436180 0.0000000 -12.6154633 18.13894 -5.342456 -25.385355 0 0.000000e+00 7.354121e-06 0.000000e+00 0 0

SnowT\_tavg AvgSurfT\_inst Albedo\_inst SWE\_inst SnowDepth\_inst SoilMoist\_S\_inst SoilMoist\_RZ\_inst SoilMoist\_P\_inst SoilTMP0\_10cm\_inst

1 288.4740 284.3871 18.74188 0 0 5.826471 248.0074 1493.303 287.7304

2 281.8147 280.3894 23.16086 0 0 5.328303 248.4716 1493.856 284.6477

3 279.5488 279.0917 NaN 0 0 5.056490 248.2590 1493.741 282.5141

4 278.6865 278.6361 NaN 0 0 5.041997 248.0716 1493.648 281.2183

5 278.9339 278.8565 21.67494 0 0 5.031730 247.8785 1493.546 280.6916

6 280.1742 283.2538 17.25185 0 0 5.007591 247.6451 1493.400 280.9363

7 283.8557 285.1588 16.46900 0 0 4.947338 247.2733 1493.110 282.3937

8 285.4519 282.4422 16.74301 0 0 4.923275 246.8514 1492.765 283.5273

9 282.7917 281.7494 18.72169 0 0 5.735039 248.8130 1494.805 282.9670

10 280.0531 279.2746 23.01887 0 0 5.412947 249.5016 1495.597 281.6837

11 278.6195 278.2703 NaN 0 0 5.097314 249.3215 1495.531 280.5921

12 277.0287 276.5340 NaN 0 0 5.079185 249.1632 1495.484 279.4527

13 276.4530 276.2954 21.60164 0 0 5.073863 249.0070 1495.436 278.6930

14 277.5557 278.6077 17.22824 0 0 5.125713 249.0021 1495.536 278.7931

15 282.3736 283.9715 16.44110 0 0 5.046371 248.7816 1495.420 280.6651

16 287.1845 287.4881 16.71814 0 0 4.938387 248.2846 1495.022 283.2369

17 284.1334 282.7262 18.70177 0 0 4.971853 247.9137 1494.743 283.0960

18 280.4415 279.5325 22.92616 0 0 5.014634 247.6830 1494.597 281.6856

19 279.1124 278.8293 NaN 0 0 5.025323 247.5037 1494.499 280.6311

20 278.0428 277.3935 NaN 0 0 5.030645 247.3468 1494.419 279.7250

SoilTMP10\_29cm\_inst SoilTMP29\_68cm\_inst SoilTMP68\_144cm\_inst SoilTMP144\_295cm\_inst SoilTMP295\_1295cm\_inst ECanop\_tavg TVeg\_tavg

1 283.9041 281.4017 278.4897 276.7027 281.4973 12.02075481 1.614672e+00

2 284.0279 281.4412 278.5081 276.7095 281.4969 11.15229797 9.527995e-03

3 283.7950 281.4766 278.5267 276.7163 281.4965 4.20702314 5.317378e-07

4 283.3973 281.4991 278.5454 276.7231 281.4961 0.52398902 5.317378e-08

5 282.9650 281.5060 278.5639 276.7300 281.4957 0.25028336 0.000000e+00

6 282.5873 281.4985 278.5822 276.7369 281.4953 0.81091172 2.126951e-07

7 282.3979 281.4812 278.6003 276.7438 281.4950 0.75035936 1.656618e-01

8 282.4233 281.4624 278.6178 276.7508 281.4946 3.86428952 6.490018e-01

9 282.4736 281.4470 278.6351 276.7577 281.4942 12.10076141 2.819359e-02

10 282.3900 281.4324 278.6520 276.7647 281.4938 9.69852161 1.169823e-06

11 282.1653 281.4134 278.6685 276.7717 281.4934 8.08980274 1.595213e-07

12 281.8431 281.3862 278.6847 276.7787 281.4930 5.41432571 3.190427e-07

13 281.4600 281.3482 278.7003 276.7857 281.4926 6.04406166 2.126951e-07

14 281.0960 281.2991 278.7154 276.7927 281.4922 12.30389690 4.785640e-07

15 280.9293 281.2429 278.7299 276.7998 281.4919 18.42065811 3.163436e-02

16 281.0919 281.1895 278.7436 276.8069 281.4915 7.98306084 1.275805e+00

17 281.3773 281.1481 278.7568 276.8139 281.4911 1.21898174 2.715440e-01

18 281.4927 281.1167 278.7695 276.8210 281.4907 0.10195111 -1.063476e-07

19 281.4203 281.0876 278.7818 276.8281 281.4903 0.04038784 1.063476e-07

20 281.2419 281.0559 278.7936 276.8352 281.4899 0.02667852 -1.595213e-07

ESoil\_tavg CanopInt\_inst ACond\_tavg TWS\_inst Wind\_f\_inst Rainf\_f\_tavg Tair\_f\_inst Qair\_f\_inst Psurf\_f\_inst SWdown\_f\_tavg

1 105.45210 0.013019353 0.03281535 1493.316 8.830433 2.848888e-04 283.0290 0.005429121 92118.52 324.4329529

2 42.79508 0.024296340 0.03448794 1493.881 7.042677 7.800000e-05 280.5949 0.004897818 92271.88 30.9036865

3 26.47188 0.005875155 0.03416692 1493.747 8.980270 0.000000e+00 279.4767 0.004760749 92134.95 0.0000000

4 21.20988 0.003580777 0.03409756 1493.651 7.420363 0.000000e+00 279.1681 0.004794048 92040.48 0.0000000

5 23.31831 0.002484868 0.03542291 1493.549 8.901356 0.000000e+00 278.9992 0.004677938 92064.84 0.2566508

6 33.40740 0.004768758 0.04198337 1493.405 9.856006 5.555557e-07 279.9069 0.004556103 92286.05 86.5268478

7 65.89295 0.001483178 0.04775724 1493.112 10.226016 0.000000e+00 282.2780 0.004415388 92283.61 315.9045105

8 78.63114 0.006606908 0.04827091 1492.771 9.559823 2.111112e-06 280.9651 0.004775241 92359.70 430.8153992

9 59.82731 0.016325690 0.04170472 1494.822 8.197954 2.317778e-04 280.9704 0.004721849 92490.65 214.0861664

10 31.81496 0.032744378 0.02910160 1495.630 5.306008 9.655556e-05 279.4309 0.004789543 92602.16 22.0384216

11 17.75269 0.034575596 0.02418096 1495.565 6.225689 4.444445e-06 278.5509 0.004715649 92646.23 0.0000000

12 12.08417 0.032389607 0.02377449 1495.516 5.631748 2.555556e-06 277.0092 0.004377169 92746.62 0.0000000

13 12.82102 0.034670293 0.02389061 1495.470 5.698257 3.444445e-06 276.3955 0.004071172 92874.01 0.9045372

14 21.19264 0.033402134 0.02768159 1495.570 6.037297 2.366666e-05 276.9988 0.003895025 93147.26 94.7196426

15 51.68463 0.013644898 0.03446004 1495.433 7.077433 1.633333e-05 280.1241 0.004172864 93282.76 334.1866455

16 89.82601 0.007312495 0.03852039 1495.029 7.006379 2.777778e-06 282.4649 0.004435907 93333.59 547.2802734

17 63.58220 0.001974971 0.03548300 1494.745 7.099138 0.000000e+00 280.9825 0.004418885 93511.72 247.8958893

18 33.24180 0.001528561 0.02684041 1494.599 4.589520 0.000000e+00 279.3443 0.004488682 93686.44 50.9524231

19 22.43033 0.001351716 0.02265847 1494.500 5.377576 0.000000e+00 278.7367 0.004538449 93691.75 0.0000000

20 18.11226 0.001234899 0.02354357 1494.421 5.489991 0.000000e+00 277.7815 0.004385688 93787.94 0.0000000

LWdown\_f\_tavg datetime date time

1 334.5812 2010-04-30 21:00:00 2010-04-30 21:00:00

2 326.9659 2010-05-01 00:00:00 2010-05-01 00:00:00

3 301.0769 2010-05-01 03:00:00 2010-05-01 03:00:00

4 291.3156 2010-05-01 06:00:00 2010-05-01 06:00:00

5 325.8184 2010-05-01 09:00:00 2010-05-01 09:00:00

6 329.8420 2010-05-01 12:00:00 2010-05-01 12:00:00

7 334.2983 2010-05-01 15:00:00 2010-05-01 15:00:00

8 328.8526 2010-05-01 18:00:00 2010-05-01 18:00:00

9 328.4898 2010-05-01 21:00:00 2010-05-01 21:00:00

10 331.3612 2010-05-02 00:00:00 2010-05-02 00:00:00

11 317.4726 2010-05-02 03:00:00 2010-05-02 03:00:00

12 285.7943 2010-05-02 06:00:00 2010-05-02 06:00:00

13 301.5578 2010-05-02 09:00:00 2010-05-02 09:00:00

14 297.2166 2010-05-02 12:00:00 2010-05-02 12:00:00

15 323.4270 2010-05-02 15:00:00 2010-05-02 15:00:00

16 336.1461 2010-05-02 18:00:00 2010-05-02 18:00:00

17 327.8620 2010-05-02 21:00:00 2010-05-02 21:00:00

18 319.8053 2010-05-03 00:00:00 2010-05-03 00:00:00

19 334.2383 2010-05-03 03:00:00 2010-05-03 03:00:00

20 315.6581 2010-05-03 06:00:00 2010-05-03 06:00:00

>

>

>

> nc\_data\_combined <- ggplot(aes(x = date, y = Wind\_f\_inst, color = as.factor(time))) + geom\_density() + facet\_wrap(~ year)

Error in `fortify()`:

! `data` must be a <data.frame>, or an object coercible by `fortify()`, not a <uneval> object.

ℹ Did you accidentally pass `aes()` to the `data` argument?

Run `rlang::last\_trace()` to see where the error occurred.

>

> nc\_data\_combined %>% ggplot(aes(x = date, y = Wind\_f\_inst, color = as.factor(time))) + geom\_density() + facet\_wrap(~ year)

Error in `combine\_vars()`:

! At least one layer must contain all faceting variables: `year`

✖ Plot is missing `year`

✖ Layer 1 is missing `year`

Run `rlang::last\_trace()` to see where the error occurred.

>

> nc\_data\_combined$year <- format(nc\_data\_combined$date, "%Y")

> str(nc\_data\_combined)

'data.frame': 13140 obs. of 43 variables:

$ time\_bnds : num 5432760 5432940 5433120 5433300 5433480 ...

$ Swnet\_tavg : num 268.5 24.7 0 0 0.2 ...

$ Lwnet\_tavg : num -45.48 -19.23 -34.09 -39.74 -6.41 ...

$ Qle\_tavg : num 119.1 54 30.7 21.7 23.6 ...

$ Qh\_tavg : num 109.5 3.13 -18.02 -24.35 -5.97 ...

$ Qg\_tavg : num -5.42 -51.51 -46.73 -37.11 -23.81 ...

$ Snowf\_tavg : num 0 0 0 0 0 0 0 0 0 0 ...

$ Rainf\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Evap\_tavg : num 4.83e-05 2.19e-05 1.24e-05 8.81e-06 9.56e-06 ...

$ Qs\_acc : num 0.1775 0.0413 0 0 0 ...

$ Qsb\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ Qsm\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowT\_tavg : num 288 282 280 279 279 ...

$ AvgSurfT\_inst : num 284 280 279 279 279 ...

$ Albedo\_inst : num 18.7 23.2 NaN NaN 21.7 ...

$ SWE\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowDepth\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SoilMoist\_S\_inst : num 5.83 5.33 5.06 5.04 5.03 ...

$ SoilMoist\_RZ\_inst : num 248 248 248 248 248 ...

$ SoilMoist\_P\_inst : num 1493 1494 1494 1494 1494 ...

$ SoilTMP0\_10cm\_inst : num 288 285 283 281 281 ...

$ SoilTMP10\_29cm\_inst : num 284 284 284 283 283 ...

$ SoilTMP29\_68cm\_inst : num 281 281 281 281 282 ...

$ SoilTMP68\_144cm\_inst : num 278 279 279 279 279 ...

$ SoilTMP144\_295cm\_inst : num 277 277 277 277 277 ...

$ SoilTMP295\_1295cm\_inst: num 281 281 281 281 281 ...

$ ECanop\_tavg : num 12.021 11.152 4.207 0.524 0.25 ...

$ TVeg\_tavg : num 1.61 9.53e-03 5.32e-07 5.32e-08 0.00 ...

$ ESoil\_tavg : num 105.5 42.8 26.5 21.2 23.3 ...

$ CanopInt\_inst : num 0.01302 0.0243 0.00588 0.00358 0.00248 ...

$ ACond\_tavg : num 0.0328 0.0345 0.0342 0.0341 0.0354 ...

$ TWS\_inst : num 1493 1494 1494 1494 1494 ...

$ Wind\_f\_inst : num 8.83 7.04 8.98 7.42 8.9 ...

$ Rainf\_f\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Tair\_f\_inst : num 283 281 279 279 279 ...

$ Qair\_f\_inst : num 0.00543 0.0049 0.00476 0.00479 0.00468 ...

$ Psurf\_f\_inst : num 92119 92272 92135 92040 92065 ...

$ SWdown\_f\_tavg : num 324.433 30.904 0 0 0.257 ...

$ LWdown\_f\_tavg : num 335 327 301 291 326 ...

$ datetime : POSIXct, format: "2010-04-30 21:00:00" "2010-05-01 00:00:00" "2010-05-01 03:00:00" "2010-05-01 06:00:00" ...

$ date : Date, format: "2010-04-30" "2010-05-01" "2010-05-01" "2010-05-01" ...

$ time : chr "21:00:00" "00:00:00" "03:00:00" "06:00:00" ...

$ year : chr "2010" "2010" "2010" "2010" ...

>

> nc\_data\_combined$month <- format(nc\_data\_combined$date, "%M")

> str(nc\_data\_combined)

'data.frame': 13140 obs. of 44 variables:

$ time\_bnds : num 5432760 5432940 5433120 5433300 5433480 ...

$ Swnet\_tavg : num 268.5 24.7 0 0 0.2 ...

$ Lwnet\_tavg : num -45.48 -19.23 -34.09 -39.74 -6.41 ...

$ Qle\_tavg : num 119.1 54 30.7 21.7 23.6 ...

$ Qh\_tavg : num 109.5 3.13 -18.02 -24.35 -5.97 ...

$ Qg\_tavg : num -5.42 -51.51 -46.73 -37.11 -23.81 ...

$ Snowf\_tavg : num 0 0 0 0 0 0 0 0 0 0 ...

$ Rainf\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Evap\_tavg : num 4.83e-05 2.19e-05 1.24e-05 8.81e-06 9.56e-06 ...

$ Qs\_acc : num 0.1775 0.0413 0 0 0 ...

$ Qsb\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ Qsm\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowT\_tavg : num 288 282 280 279 279 ...

$ AvgSurfT\_inst : num 284 280 279 279 279 ...

$ Albedo\_inst : num 18.7 23.2 NaN NaN 21.7 ...

$ SWE\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowDepth\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SoilMoist\_S\_inst : num 5.83 5.33 5.06 5.04 5.03 ...

$ SoilMoist\_RZ\_inst : num 248 248 248 248 248 ...

$ SoilMoist\_P\_inst : num 1493 1494 1494 1494 1494 ...

$ SoilTMP0\_10cm\_inst : num 288 285 283 281 281 ...

$ SoilTMP10\_29cm\_inst : num 284 284 284 283 283 ...

$ SoilTMP29\_68cm\_inst : num 281 281 281 281 282 ...

$ SoilTMP68\_144cm\_inst : num 278 279 279 279 279 ...

$ SoilTMP144\_295cm\_inst : num 277 277 277 277 277 ...

$ SoilTMP295\_1295cm\_inst: num 281 281 281 281 281 ...

$ ECanop\_tavg : num 12.021 11.152 4.207 0.524 0.25 ...

$ TVeg\_tavg : num 1.61 9.53e-03 5.32e-07 5.32e-08 0.00 ...

$ ESoil\_tavg : num 105.5 42.8 26.5 21.2 23.3 ...

$ CanopInt\_inst : num 0.01302 0.0243 0.00588 0.00358 0.00248 ...

$ ACond\_tavg : num 0.0328 0.0345 0.0342 0.0341 0.0354 ...

$ TWS\_inst : num 1493 1494 1494 1494 1494 ...

$ Wind\_f\_inst : num 8.83 7.04 8.98 7.42 8.9 ...

$ Rainf\_f\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Tair\_f\_inst : num 283 281 279 279 279 ...

$ Qair\_f\_inst : num 0.00543 0.0049 0.00476 0.00479 0.00468 ...

$ Psurf\_f\_inst : num 92119 92272 92135 92040 92065 ...

$ SWdown\_f\_tavg : num 324.433 30.904 0 0 0.257 ...

$ LWdown\_f\_tavg : num 335 327 301 291 326 ...

$ datetime : POSIXct, format: "2010-04-30 21:00:00" "2010-05-01 00:00:00" "2010-05-01 03:00:00" "2010-05-01 06:00:00" ...

$ date : Date, format: "2010-04-30" "2010-05-01" "2010-05-01" "2010-05-01" ...

$ time : chr "21:00:00" "00:00:00" "03:00:00" "06:00:00" ...

$ year : chr "2010" "2010" "2010" "2010" ...

$ month : chr "00" "00" "00" "00" ...

>

> nc\_data\_combined$month <- format(nc\_data\_combined$date, "%b")

>

> str(nc\_data\_combined)

'data.frame': 13140 obs. of 44 variables:

$ time\_bnds : num 5432760 5432940 5433120 5433300 5433480 ...

$ Swnet\_tavg : num 268.5 24.7 0 0 0.2 ...

$ Lwnet\_tavg : num -45.48 -19.23 -34.09 -39.74 -6.41 ...

$ Qle\_tavg : num 119.1 54 30.7 21.7 23.6 ...

$ Qh\_tavg : num 109.5 3.13 -18.02 -24.35 -5.97 ...

$ Qg\_tavg : num -5.42 -51.51 -46.73 -37.11 -23.81 ...

$ Snowf\_tavg : num 0 0 0 0 0 0 0 0 0 0 ...

$ Rainf\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Evap\_tavg : num 4.83e-05 2.19e-05 1.24e-05 8.81e-06 9.56e-06 ...

$ Qs\_acc : num 0.1775 0.0413 0 0 0 ...

$ Qsb\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ Qsm\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowT\_tavg : num 288 282 280 279 279 ...

$ AvgSurfT\_inst : num 284 280 279 279 279 ...

$ Albedo\_inst : num 18.7 23.2 NaN NaN 21.7 ...

$ SWE\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowDepth\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SoilMoist\_S\_inst : num 5.83 5.33 5.06 5.04 5.03 ...

$ SoilMoist\_RZ\_inst : num 248 248 248 248 248 ...

$ SoilMoist\_P\_inst : num 1493 1494 1494 1494 1494 ...

$ SoilTMP0\_10cm\_inst : num 288 285 283 281 281 ...

$ SoilTMP10\_29cm\_inst : num 284 284 284 283 283 ...

$ SoilTMP29\_68cm\_inst : num 281 281 281 281 282 ...

$ SoilTMP68\_144cm\_inst : num 278 279 279 279 279 ...

$ SoilTMP144\_295cm\_inst : num 277 277 277 277 277 ...

$ SoilTMP295\_1295cm\_inst: num 281 281 281 281 281 ...

$ ECanop\_tavg : num 12.021 11.152 4.207 0.524 0.25 ...

$ TVeg\_tavg : num 1.61 9.53e-03 5.32e-07 5.32e-08 0.00 ...

$ ESoil\_tavg : num 105.5 42.8 26.5 21.2 23.3 ...

$ CanopInt\_inst : num 0.01302 0.0243 0.00588 0.00358 0.00248 ...

$ ACond\_tavg : num 0.0328 0.0345 0.0342 0.0341 0.0354 ...

$ TWS\_inst : num 1493 1494 1494 1494 1494 ...

$ Wind\_f\_inst : num 8.83 7.04 8.98 7.42 8.9 ...

$ Rainf\_f\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Tair\_f\_inst : num 283 281 279 279 279 ...

$ Qair\_f\_inst : num 0.00543 0.0049 0.00476 0.00479 0.00468 ...

$ Psurf\_f\_inst : num 92119 92272 92135 92040 92065 ...

$ SWdown\_f\_tavg : num 324.433 30.904 0 0 0.257 ...

$ LWdown\_f\_tavg : num 335 327 301 291 326 ...

$ datetime : POSIXct, format: "2010-04-30 21:00:00" "2010-05-01 00:00:00" "2010-05-01 03:00:00" "2010-05-01 06:00:00" ...

$ date : Date, format: "2010-04-30" "2010-05-01" "2010-05-01" "2010-05-01" ...

$ time : chr "21:00:00" "00:00:00" "03:00:00" "06:00:00" ...

$ year : chr "2010" "2010" "2010" "2010" ...

$ month : chr "Apr" "May" "May" "May" ...

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> nc\_data\_combined %>% ggplot(aes(x = date, y = Wind\_f\_inst, color = as.factor(time))) + geom\_density() + facet\_wrap(~ year)

Error in `geom\_density()`:

! Problem while setting up geom.

ℹ Error occurred in the 1st layer.

Caused by error in `compute\_geom\_1()`:

! `geom\_density()` requires the following missing aesthetics: y

Run `rlang::last\_trace()` to see where the error occurred.

Warning messages:

1: The following aesthetics were dropped during statistical transformation: y

ℹ This can happen when ggplot fails to infer the correct grouping structure in the data.

ℹ Did you forget to specify a `group` aesthetic or to convert a numerical variable into a factor?

2: The following aesthetics were dropped during statistical transformation: y

ℹ This can happen when ggplot fails to infer the correct grouping structure in the data.

ℹ Did you forget to specify a `group` aesthetic or to convert a numerical variable into a factor?

3: The following aesthetics were dropped during statistical transformation: y

ℹ This can happen when ggplot fails to infer the correct grouping structure in the data.

ℹ Did you forget to specify a `group` aesthetic or to convert a numerical variable into a factor?

4: The following aesthetics were dropped during statistical transformation: y

ℹ This can happen when ggplot fails to infer the correct grouping structure in the data.

ℹ Did you forget to specify a `group` aesthetic or to convert a numerical variable into a factor?

5: The following aesthetics were dropped during statistical transformation: y

ℹ This can happen when ggplot fails to infer the correct grouping structure in the data.

ℹ Did you forget to specify a `group` aesthetic or to convert a numerical variable into a factor?

>

> nc\_data\_combined %>% ggplot(aes(x = date, y = Wind\_f\_inst, color = as.factor(time))) + geom\_boxplot() + facet\_wrap(~ year)

>

> nc\_data\_combined %>% ggplot(aes(x = date, y = Wind\_f\_inst, color = as.factor(time))) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

Error in UseMethod("depth") :

no applicable method for 'depth' applied to an object of class "NULL"

> nc\_data\_combined %>% ggplot(aes(x = date, y = Wind\_f\_inst, color = as.factor(time))) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

> nc\_data\_combined %>% ggplot(aes(x = date, y = Wind\_f\_inst)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

Warning message:

Continuous x aesthetic

ℹ did you forget `aes(group = ...)`?

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Wind\_f\_inst)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

2025-09-29 23:33:06.677 R[28951:2084211] -[NSDocumentController fileExtensionsFromType:] is deprecated, and does not work when passed a uniform type identifier (UTI). If the application didn't invoke it directly then the problem is probably that some other NSDocument or NSDocumentController method is getting confused by a UTI that's not actually declared anywhere. Maybe it should be declared in the UTExportedTypeDeclarations section of this app's Info.plist but is not. The alleged UTI in question is "public.text".

2025-09-29 23:33:07.052 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-29 23:33:07.117 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-29 23:33:07.284 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-29 23:33:07.358 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-29 23:33:07.578 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Wind\_f\_inst)) + geom\_line() + facet\_wrap(~ year, scales = "free\_x", ncol = 5)

>

>

> wheat\_data <- read.csv("/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/data/crop\_data/PFAC\_2011\_2014\_grain\_mineral\_protein\_mandan\_northdakota\_df.csv", head = TRUE)

> str(wheat\_data)

'data.frame': 191 obs. of 17 variables:

$ year : int 2011 2011 2011 2011 2011 2011 2011 2011 2011 2011 ...

$ rep : int 1 1 1 1 1 1 1 1 1 1 ...

$ strip : int 2 2 2 1 1 1 3 3 3 4 ...

$ field\_stag\_start: int 1 1 1 1 1 1 1 1 1 1 ...

$ perennial\_trt : chr "Alfalfa" "IWG" "MIX" "Alfalfa" ...

$ yr\_in\_perennial : int 2 2 2 3 3 3 4 4 4 5 ...

$ ca : num 0.316 0.298 0.329 0.325 0.395 0.339 0.37 0.353 0.35 0.407 ...

$ fe : num 36.8 35.5 35.3 35.1 37.7 ...

$ k : num 4.29 4.45 4.56 4.46 5.05 ...

$ mg : num 2.06 2.25 2.2 2.22 2.47 ...

$ mn : num 49.3 46.6 38.3 46 44.2 ...

$ ni : num 0.434 0.494 0.762 0.542 0.841 0.461 0.277 0.682 0.451 0.082 ...

$ p : num 4.85 5.03 4.87 4.75 5.23 ...

$ s : num 1.59 1.58 1.59 1.5 1.65 ...

$ zn : num 36.2 41.9 40.1 33.2 42.3 ...

$ protein : num 164 160 153 154 145 ...

$ tkw : num 21.4 21.8 19.3 22 22.4 ...

>

> wheat\_data %>% ggplot(aes(x = year, y = ca)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 3)

Warning message:

Continuous x aesthetic

ℹ did you forget `aes(group = ...)`?

>

> wheat\_data %>% ggplot(aes(x = factor(year), y = ca)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 4)

> wheat\_data %>% ggplot(aes(x = factor(year), y = fe)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 4)

> wheat\_data %>% ggplot(aes(x = factor(year), y = protein)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 4)

> wheat\_data %>% ggplot(aes(x = factor(year), y = k)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 4)

> wheat\_data %>% ggplot(aes(x = factor(year), y = mg)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 4)

> wheat\_data %>% ggplot(aes(x = factor(year), y = mn)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 4)

> wheat\_data %>% ggplot(aes(x = factor(year), y = zn)) + geom\_boxplot(outlier.shape = NA) + geom\_point(position = position\_jitter(height = 0, width = 0.15)) + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 4)

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = SnowDepth\_inst)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

>

> nc\_data\_combined %>% ggplot(aes(x = factor(month, levels = c("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec")), y = SnowDepth\_inst)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

>

> nc\_data\_combined %>% ggplot(aes(x = factor(month, levels = c("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec")), y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

>

>

>

> str(as.data.frame(nc\_data\_combined))

'data.frame': 13140 obs. of 44 variables:

$ time\_bnds : num 5432760 5432940 5433120 5433300 5433480 ...

$ Swnet\_tavg : num 268.5 24.7 0 0 0.2 ...

$ Lwnet\_tavg : num -45.48 -19.23 -34.09 -39.74 -6.41 ...

$ Qle\_tavg : num 119.1 54 30.7 21.7 23.6 ...

$ Qh\_tavg : num 109.5 3.13 -18.02 -24.35 -5.97 ...

$ Qg\_tavg : num -5.42 -51.51 -46.73 -37.11 -23.81 ...

$ Snowf\_tavg : num 0 0 0 0 0 0 0 0 0 0 ...

$ Rainf\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Evap\_tavg : num 4.83e-05 2.19e-05 1.24e-05 8.81e-06 9.56e-06 ...

$ Qs\_acc : num 0.1775 0.0413 0 0 0 ...

$ Qsb\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ Qsm\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowT\_tavg : num 288 282 280 279 279 ...

$ AvgSurfT\_inst : num 284 280 279 279 279 ...

$ Albedo\_inst : num 18.7 23.2 NaN NaN 21.7 ...

$ SWE\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowDepth\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SoilMoist\_S\_inst : num 5.83 5.33 5.06 5.04 5.03 ...

$ SoilMoist\_RZ\_inst : num 248 248 248 248 248 ...

$ SoilMoist\_P\_inst : num 1493 1494 1494 1494 1494 ...

$ SoilTMP0\_10cm\_inst : num 288 285 283 281 281 ...

$ SoilTMP10\_29cm\_inst : num 284 284 284 283 283 ...

$ SoilTMP29\_68cm\_inst : num 281 281 281 281 282 ...

$ SoilTMP68\_144cm\_inst : num 278 279 279 279 279 ...

$ SoilTMP144\_295cm\_inst : num 277 277 277 277 277 ...

$ SoilTMP295\_1295cm\_inst: num 281 281 281 281 281 ...

$ ECanop\_tavg : num 12.021 11.152 4.207 0.524 0.25 ...

$ TVeg\_tavg : num 1.61 9.53e-03 5.32e-07 5.32e-08 0.00 ...

$ ESoil\_tavg : num 105.5 42.8 26.5 21.2 23.3 ...

$ CanopInt\_inst : num 0.01302 0.0243 0.00588 0.00358 0.00248 ...

$ ACond\_tavg : num 0.0328 0.0345 0.0342 0.0341 0.0354 ...

$ TWS\_inst : num 1493 1494 1494 1494 1494 ...

$ Wind\_f\_inst : num 8.83 7.04 8.98 7.42 8.9 ...

$ Rainf\_f\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Tair\_f\_inst : num 283 281 279 279 279 ...

$ Qair\_f\_inst : num 0.00543 0.0049 0.00476 0.00479 0.00468 ...

$ Psurf\_f\_inst : num 92119 92272 92135 92040 92065 ...

$ SWdown\_f\_tavg : num 324.433 30.904 0 0 0.257 ...

$ LWdown\_f\_tavg : num 335 327 301 291 326 ...

$ datetime : POSIXct, format: "2010-04-30 21:00:00" "2010-05-01 00:00:00" "2010-05-01 03:00:00" "2010-05-01 06:00:00" ...

$ date : Date, format: "2010-04-30" "2010-05-01" "2010-05-01" "2010-05-01" ...

$ time : chr "21:00:00" "00:00:00" "03:00:00" "06:00:00" ...

$ year : chr "2010" "2010" "2010" "2010" ...

$ month : chr "Apr" "May" "May" "May" ...

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> nc\_data\_combined

time\_bnds Swnet\_tavg Lwnet\_tavg Qle\_tavg Qh\_tavg Qg\_tavg Snowf\_tavg Rainf\_tavg Evap\_tavg Qs\_acc

1 5432760 268.47167969 -45.4809570 1.190875e+02 109.50447845 -5.41946840 0.000000e+00 2.848888e-04 4.828199e-05 1.774642e-01

2 5432940 24.73781776 -19.2266407 5.395691e+01 3.13435364 -51.50606155 0.000000e+00 7.800000e-05 2.187590e-05 4.131556e-02

3 5433120 0.00000000 -34.0924072 3.067890e+01 -18.01863289 -46.72864914 0.000000e+00 0.000000e+00 1.243823e-05 0.000000e+00

4 5433300 0.00000000 -39.7368660 2.173386e+01 -24.35304832 -37.10924911 0.000000e+00 0.000000e+00 8.811622e-06 0.000000e+00

5 5433480 0.20006154 -6.4101577 2.356859e+01 -5.97144556 -23.81132317 0.000000e+00 0.000000e+00 9.555479e-06 0.000000e+00

6 5433660 70.85828400 -8.3472366 3.421831e+01 34.94298172 -6.73166275 0.000000e+00 5.555557e-07 1.387323e-05 7.240216e-06

7 5433840 263.06829834 -22.0264893 6.680898e+01 148.81001282 25.38754272 0.000000e+00 0.000000e+00 2.708655e-05 0.000000e+00

8 5434020 359.61502075 -35.5547066 8.314443e+01 213.66999817 27.29621696 0.000000e+00 2.111112e-06 3.370949e-05 3.286562e-05

9 5434200 176.83833313 -22.5186863 7.195627e+01 89.05484009 -6.67862129 0.000000e+00 2.317778e-04 2.917343e-05 1.376233e-01

10 5434380 17.66254807 -6.3796334 4.151348e+01 -2.99532485 -27.18942070 0.000000e+00 9.655556e-05 1.683093e-05 5.269258e-02

11 5434560 0.00000000 -13.3969908 2.584250e+01 -9.81541920 -29.40546989 0.000000e+00 4.444445e-06 1.047740e-05 4.881379e-04

12 5434740 0.00000000 -37.5849876 1.749850e+01 -19.91992760 -35.13140488 0.000000e+00 2.555556e-06 7.094465e-06 2.701170e-04

13 5434920 0.70543927 -19.1394882 1.886508e+01 -6.61043358 -30.68427849 0.000000e+00 3.444445e-06 7.648522e-06 3.751100e-04

14 5435100 77.49669647 -28.6381130 3.349654e+01 28.32531548 -13.00609112 0.000000e+00 2.366666e-05 1.358060e-05 9.002524e-03

15 5435280 278.43969727 -25.6633434 7.013691e+01 151.28480530 31.25530815 0.000000e+00 1.633333e-05 2.843580e-05 5.115220e-03

16 5435460 456.98611450 -37.3245583 9.908487e+01 261.04171753 59.46985245 0.000000e+00 2.777778e-06 4.017225e-05 6.082677e-05

17 5435640 204.69804382 -30.0151882 6.507273e+01 100.71337128 8.98494244 0.000000e+00 0.000000e+00 2.638262e-05 0.000000e+00

18 5435820 40.97360611 -19.9575386 3.334375e+01 11.38499928 -23.65355492 0.000000e+00 0.000000e+00 1.351865e-05 0.000000e+00

19 5436000 0.00000000 0.8871574 2.247072e+01 2.26408577 -23.83462334 0.000000e+00 0.000000e+00 9.110367e-06 0.000000e+00

20 5436180 0.00000000 -12.6154633 1.813894e+01 -5.34245634 -25.38535500 0.000000e+00 0.000000e+00 7.354121e-06 0.000000e+00

21 5436360 1.25416005 -31.7577419 1.260915e+01 -11.63481236 -31.45156288 0.000000e+00 0.000000e+00 5.112165e-06 0.000000e+00

22 5436540 172.30635071 -54.9691467 3.581738e+01 62.26954269 19.07927704 0.000000e+00 8.888890e-07 1.452154e-05 1.226064e-05

23 5436720 409.93106079 -62.9261894 1.002939e+02 169.20378113 77.37101746 0.000000e+00 6.333333e-06 4.066242e-05 1.817130e-04

24 5436900 503.38955688 -75.2015610 1.441817e+02 190.81623840 93.11734009 0.000000e+00 6.999999e-06 5.845600e-05 3.564197e-04

25 5437080 390.94458008 -102.7177658 1.064979e+02 117.10842896 64.74572754 0.000000e+00 0.000000e+00 4.317775e-05 0.000000e+00

26 5437260 48.31445694 -41.0098686 4.260941e+01 -10.44977283 -24.74443817 0.000000e+00 0.000000e+00 1.727525e-05 0.000000e+00

27 5437440 0.00000000 -25.4065018 4.491533e+01 -44.85008621 -25.44919586 0.000000e+00 0.000000e+00 1.821015e-05 0.000000e+00

28 5437620 0.00000000 -60.6327019 3.865512e+01 -72.71162415 -26.54026985 0.000000e+00 0.000000e+00 1.567205e-05 0.000000e+00

29 5437800 1.46858871 -47.3297920 1.615674e+01 -32.58489609 -29.43311501 0.000000e+00 0.000000e+00 6.550472e-06 0.000000e+00

30 5437980 195.71830750 -71.9208450 5.973681e+01 39.15212631 24.79949188 0.000000e+00 0.000000e+00 2.421926e-05 0.000000e+00

31 5438160 281.04727173 -40.1616402 1.002057e+02 105.44963837 35.23659134 0.000000e+00 0.000000e+00 4.062667e-05 0.000000e+00

32 5438340 486.80395508 -62.0269775 1.398410e+02 231.83518982 53.03294754 0.000000e+00 0.000000e+00 5.669614e-05 0.000000e+00

33 5438520 259.73345947 -47.8808708 1.090727e+02 86.78802490 16.06501961 0.000000e+00 0.000000e+00 4.422163e-05 0.000000e+00

34 5438700 32.69394684 -20.5023651 6.513091e+01 -28.96920586 -23.89469147 0.000000e+00 0.000000e+00 2.640621e-05 0.000000e+00

35 5438880 0.00000000 -62.3793602 4.515723e+01 -64.32607269 -43.14639282 0.000000e+00 0.000000e+00 1.830822e-05 0.000000e+00

36 5439060 0.00000000 -70.4193802 3.415249e+01 -56.55616379 -47.97790146 0.000000e+00 0.000000e+00 1.384654e-05 0.000000e+00

37 5439240 0.71453851 -16.4706955 3.035355e+01 -14.76953888 -31.36220360 0.000000e+00 0.000000e+00 1.230632e-05 0.000000e+00

38 5439420 145.12159729 -50.2262115 3.955577e+01 54.85444260 0.40501985 0.000000e+00 0.000000e+00 1.603721e-05 0.000000e+00

39 5439600 396.52865601 -49.6682129 7.671531e+01 226.82714844 43.22858810 0.000000e+00 0.000000e+00 3.110290e-05 0.000000e+00

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41 5439960 349.01577759 -67.7613525 9.858691e+01 161.39080811 21.35517311 0.000000e+00 4.877778e-05 3.997037e-05 1.864192e-02

42 5440140 44.80881119 -29.5582447 4.875436e+01 4.87481260 -38.27427673 0.000000e+00 4.383334e-04 1.976661e-05 4.123265e-01

43 5440320 0.00000000 -57.3260956 8.434943e+00 -7.95382547 -57.75420761 0.000000e+00 2.554445e-04 3.419803e-06 2.283389e-01

44 5440500 0.00000000 -45.5909615 4.025563e+00 -2.40307164 -47.19105148 0.000000e+00 1.978889e-04 1.632095e-06 1.459258e-01

45 5440680 0.14542316 -19.8006916 8.301450e+00 1.66878998 -29.65780067 0.000000e+00 1.002222e-04 3.365680e-06 5.901230e-02

46 5440860 33.93847275 -8.8677902 1.724983e+01 23.04268646 -15.24190807 0.000000e+00 9.766664e-05 6.993647e-06 5.310077e-02

47 5441040 201.29742432 -15.7711668 4.543206e+01 123.41814423 16.61284447 0.000000e+00 4.188890e-05 1.841965e-05 1.925189e-02

48 5441220 174.37178040 -9.1792030 4.137999e+01 111.57696533 12.14423370 0.000000e+00 1.578889e-04 1.677680e-05 8.898323e-02

49 5441400 150.07243347 -11.8889341 3.600097e+01 98.49727631 3.79592800 0.000000e+00 1.000000e-06 1.459597e-05 5.301276e-05

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52 5442120 0.23206325 -0.2508138 9.108691e+00 20.74538612 -29.87673187 0.000000e+00 1.222222e-05 3.692963e-06 3.613256e-03

53 5442300 71.85999298 7.6952720 2.418840e+01 70.35383606 -15.01870060 0.000000e+00 2.422222e-05 9.806771e-06 9.730440e-03

54 5442660 337.42874146 -24.9075470 4.893237e+01 240.42285156 23.15143394 0.000000e+00 2.111112e-06 1.983879e-05 4.856565e-05

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63 5444280 426.12326050 -125.1764755 9.565961e+01 166.65780640 38.76975632 0.000000e+00 7.600000e-05 3.878355e-05 3.342120e-02

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160 5461740 56.73106384 -40.8403320 7.264945e+01 -32.86439133 -23.78596687 0.000000e+00 0.000000e+00 2.945448e-05 0.000000e+00

161 5461920 0.00000000 -59.0643654 4.137545e+01 -57.72102737 -42.66658783 0.000000e+00 0.000000e+00 1.677497e-05 0.000000e+00

162 5462100 0.00000000 -57.0557060 2.531390e+01 -41.60832977 -40.72595978 0.000000e+00 0.000000e+00 1.026309e-05 0.000000e+00

163 5462280 4.84660769 -29.6682262 1.006570e+01 -9.61678410 -25.30335426 0.000000e+00 1.777778e-06 4.080967e-06 3.262822e-05

164 5462460 193.04223633 -61.7259026 4.362704e+01 43.81542969 43.70640564 0.000000e+00 5.888889e-06 1.768783e-05 2.712972e-04

165 5462640 502.86694336 -81.6749115 1.533181e+02 171.98602295 95.78806305 0.000000e+00 2.800000e-05 6.216018e-05 8.368168e-03

166 5462820 619.22631836 -92.7692184 2.331757e+02 211.64979553 81.63134003 0.000000e+00 7.444445e-05 9.453709e-05 2.877249e-02

167 5463000 258.38531494 -45.7109985 1.644170e+02 34.16371155 14.20705891 0.000000e+00 4.432221e-04 6.666004e-05 3.744994e-01

168 5463180 44.67834854 -11.9241257 5.708595e+01 -3.98647475 -20.26704407 0.000000e+00 4.606666e-04 2.314452e-05 5.481431e-01

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171 5463720 0.53899896 -17.9758186 3.873565e+01 -48.34019470 -7.85610437 0.000000e+00 5.377778e-05 1.570470e-05 2.266687e-02

172 5463900 157.79183960 -16.2079830 6.503260e+01 54.59452820 21.85367393 0.000000e+00 5.466666e-05 2.636635e-05 2.291040e-02

173 5464080 458.65762329 -60.4534950 1.413722e+02 186.62707520 70.12575531 0.000000e+00 8.000002e-05 5.731692e-05 3.462079e-02

174 5464260 538.52893066 -67.8849487 2.186296e+02 144.92984009 106.94677734 0.000000e+00 5.255557e-05 8.863962e-05 2.089812e-02

175 5464440 315.60253906 -54.0979729 1.300383e+02 71.84767914 59.77206421 0.000000e+00 2.222223e-07 5.272178e-05 1.912903e-06

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412 5507100 213.97450256 -45.0626221 1.010861e+02 37.04858017 30.63758659 0.000000e+00 8.544443e-05 4.098362e-05 3.912879e-02

413 5507280 608.77111816 -93.6647339 1.945850e+02 211.77595520 108.57802582 0.000000e+00 8.555555e-06 7.889113e-05 1.346138e-04

414 5507460 700.48968506 -105.2546310 2.612924e+02 229.41821289 104.51337433 0.000000e+00 2.444445e-06 1.059365e-04 1.797764e-05

415 5507640 464.62292480 -102.5975266 2.208953e+02 94.81679535 46.41760635 0.000000e+00 1.265556e-04 8.955821e-05 5.388149e-02

416 5507820 98.84552002 -56.1983032 1.141943e+02 -31.72796822 -39.63951492 0.000000e+00 2.754444e-04 4.629812e-05 1.805767e-01

417 5508000 0.00000000 -38.3677635 6.888029e+01 -58.82086563 -48.40553284 0.000000e+00 2.488890e-05 2.792633e-05 6.088140e-03

418 5508180 0.00000000 -34.3756905 4.670390e+01 -50.35063553 -30.72712135 0.000000e+00 2.466666e-05 1.893529e-05 5.685868e-03

419 5508360 8.70011520 -24.3537064 2.967992e+01 -26.22628784 -19.12414360 0.000000e+00 4.377776e-05 1.203321e-05 1.592851e-02

420 5508540 270.57434082 -71.2407608 1.239292e+02 28.81679535 46.45132446 0.000000e+00 3.633333e-05 5.024497e-05 1.110763e-02

421 5508720 613.66058350 -100.9776077 2.272103e+02 198.23785400 87.11466217 0.000000e+00 8.888891e-06 9.211848e-05 1.216481e-04

422 5508900 700.44146729 -113.4682007 2.990816e+02 202.63751221 85.24492645 0.000000e+00 2.044445e-05 1.212575e-04 2.328080e-03

423 5509080 451.62487793 -88.8707275 2.547716e+02 76.20381165 31.89061928 0.000000e+00 1.282222e-04 1.032928e-04 5.452673e-02

424 5509260 43.44906616 -23.0481052 1.064844e+02 -37.22317886 -48.70165634 0.000000e+00 1.320001e-04 4.317226e-05 6.160077e-02

425 5509440 0.00000000 7.7796721 6.768798e+01 -9.15943336 -50.71195602 0.000000e+00 1.711111e-05 2.744293e-05 1.496222e-03

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428 5509980 190.39308167 -34.6053963 9.749920e+01 51.33195496 6.85474014 0.000000e+00 1.010000e-04 3.952937e-05 4.644222e-02

429 5510160 537.39831543 -77.7936783 1.764573e+02 221.60804749 61.41250992 0.000000e+00 8.777776e-06 7.154159e-05 1.408552e-04

430 5510340 696.44268799 -108.8934860 2.310883e+02 276.85467529 79.55432892 0.000000e+00 4.444445e-07 9.369079e-05 2.207905e-06

431 5510520 469.87380981 -102.0141068 1.785066e+02 147.86480713 41.56902695 0.000000e+00 0.000000e+00 7.237243e-05 0.000000e+00

432 5510700 101.04265594 -71.0125427 5.425091e+01 12.48657322 -36.52917480 0.000000e+00 0.000000e+00 2.199510e-05 0.000000e+00

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542 5530500 655.62829590 -124.1214218 2.138641e+02 232.49513245 85.14899445 0.000000e+00 3.666667e-06 8.670753e-05 2.201853e-05

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666 5552820 0.00000000 -54.6829262 5.854706e+00 -4.29574823 -56.20681763 0.000000e+00 1.351111e-04 2.373690e-06 5.498934e-02

667 5553000 2.89174724 -47.5482216 1.230926e+01 -15.18931675 -41.78768921 0.000000e+00 7.733332e-05 4.990577e-06 3.189973e-02

668 5553180 177.71795654 -43.8255806 9.433564e+01 34.94889450 4.51604414 0.000000e+00 2.188890e-05 3.824677e-05 3.929591e-03

669 5553360 444.82617188 -40.6883240 1.407550e+02 196.14184570 67.07935333 0.000000e+00 3.666667e-06 5.706669e-05 4.141893e-05

670 5553540 442.87161255 -52.3834038 1.863652e+02 148.86608887 55.29502869 0.000000e+00 4.511111e-05 7.555857e-05 1.119342e-02

671 5553720 37.26583481 -1.8227119 6.072018e+01 5.98787451 -31.10378075 0.000000e+00 0.000000e+00 2.461796e-05 0.000000e+00

672 5553900 25.44722748 0.3427645 2.619127e+01 34.37290573 -34.76937866 0.000000e+00 0.000000e+00 1.061880e-05 0.000000e+00

673 5554080 0.00000000 -47.6520081 5.521008e+00 -6.51835108 -46.59526443 0.000000e+00 0.000000e+00 2.238398e-06 0.000000e+00

674 5554260 0.00000000 -46.4724083 2.252229e+00 -5.58609343 -43.12321854 0.000000e+00 0.000000e+00 9.131275e-07 0.000000e+00

675 5554440 2.65506840 -45.6730537 1.626536e+00 -10.60599327 -34.05063629 0.000000e+00 0.000000e+00 6.594508e-07 0.000000e+00

676 5554620 231.53735352 -72.1880722 4.426767e+01 85.43032837 29.48791313 0.000000e+00 0.000000e+00 1.794757e-05 0.000000e+00

677 5554800 594.92901611 -105.8210831 1.499560e+02 251.06219482 87.95143890 0.000000e+00 0.000000e+00 6.079708e-05 0.000000e+00

678 5554980 683.06512451 -112.6576843 2.123873e+02 266.09762573 91.89078522 0.000000e+00 0.000000e+00 8.610875e-05 0.000000e+00

679 5555160 452.66149902 -97.5039291 1.736762e+02 142.37252808 39.21572495 0.000000e+00 0.000000e+00 7.041402e-05 0.000000e+00

680 5555340 85.06936646 -64.7292328 6.768643e+01 -4.35609961 -42.82258606 0.000000e+00 0.000000e+00 2.744230e-05 0.000000e+00

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683 5555880 2.53791451 -49.9907684 1.233251e+01 -20.09179115 -39.71616745 0.000000e+00 0.000000e+00 5.000004e-06 0.000000e+00

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685 5556240 582.71923828 -93.4724121 1.996266e+02 185.82652283 103.65243530 0.000000e+00 0.000000e+00 8.093518e-05 0.000000e+00

686 5556420 674.57598877 -96.4750290 2.763585e+02 195.61936951 106.08273315 0.000000e+00 0.000000e+00 1.120448e-04 0.000000e+00

687 5556600 442.40206909 -76.5599289 2.362360e+02 69.19948578 60.48634338 0.000000e+00 0.000000e+00 9.577782e-05 0.000000e+00

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792 5575500 60.88977432 -58.2643547 5.778727e+01 -9.82808971 -45.14839554 0.000000e+00 0.000000e+00 2.342885e-05 0.000000e+00

793 5575680 0.00000000 -45.2739716 2.086558e+01 -4.40297270 -61.69178772 0.000000e+00 1.529200e-04 8.459589e-06 6.561544e-02

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805 5577840 546.66320801 -101.1849670 2.228582e+02 117.27719879 105.19869995 0.000000e+00 0.000000e+00 9.035403e-05 0.000000e+00

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812 5579100 130.98313904 -29.4078617 6.730209e+01 10.23190975 23.91466331 0.000000e+00 3.999999e-08 2.728647e-05 1.002709e-06

813 5579280 513.52203369 -81.6678848 1.987396e+02 146.91172791 86.07527924 0.000000e+00 0.000000e+00 8.057556e-05 0.000000e+00

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917 5598000 265.01638794 -35.5695992 1.194644e+02 86.07877350 23.84078026 0.000000e+00 1.000000e-06 4.843479e-05 5.038018e-06

918 5598180 338.66760254 -54.1214714 1.504542e+02 108.41368866 25.68984985 0.000000e+00 2.159999e-06 6.099909e-05 9.281727e-06

919 5598360 356.35122681 -93.8558044 1.406998e+02 111.38419342 10.48865604 0.000000e+00 2.000000e-07 5.704428e-05 4.521446e-07

920 5598540 30.99487495 -73.9649124 6.650539e+01 -50.59519577 -58.76438522 0.000000e+00 2.000000e-07 2.696347e-05 4.897640e-07

921 5598720 0.00000000 -67.1689453 4.413704e+01 -44.85496902 -66.41262054 0.000000e+00 2.400000e-07 1.789460e-05 9.043304e-07

922 5598900 0.00000000 -69.3484573 2.882964e+01 -29.20652199 -68.92968750 0.000000e+00 8.799998e-07 1.168848e-05 7.184512e-06

923 5599080 0.00000000 -62.8803291 3.193948e+01 -36.57709885 -58.25629044 0.000000e+00 1.960000e-06 1.294931e-05 3.044544e-05

924 5599260 131.37611389 -59.1648903 7.011507e+01 6.46719980 -4.48162746 0.000000e+00 1.160000e-06 2.842695e-05 1.073165e-05

925 5599440 499.08825684 -112.8372726 1.405919e+02 184.85481262 60.64723587 0.000000e+00 0.000000e+00 5.700059e-05 0.000000e+00

926 5599620 620.74877930 -139.4032898 1.800131e+02 229.82440186 71.47515106 0.000000e+00 0.000000e+00 7.298322e-05 0.000000e+00

927 5599800 348.47158813 -116.4445877 1.425536e+02 70.34058380 19.26130104 0.000000e+00 0.000000e+00 5.779590e-05 0.000000e+00

928 5599980 30.96842766 -77.3028030 6.111366e+01 -41.82749176 -65.45154572 0.000000e+00 0.000000e+00 2.477748e-05 0.000000e+00

929 5600160 0.00000000 -68.9068604 3.221495e+01 -23.16516685 -77.92681885 0.000000e+00 0.000000e+00 1.306100e-05 0.000000e+00

930 5600340 0.00000000 -71.0297852 2.321375e+01 -19.81567001 -74.37419891 0.000000e+00 0.000000e+00 9.411615e-06 0.000000e+00

931 5600520 0.00000000 -45.5634117 2.153545e+01 -12.45032787 -54.67953110 0.000000e+00 0.000000e+00 8.731177e-06 0.000000e+00

932 5600700 158.78303528 -71.1304550 4.745971e+01 28.22580528 11.75972843 0.000000e+00 0.000000e+00 1.924173e-05 0.000000e+00

933 5600880 537.56915283 -136.1300812 1.309694e+02 179.21112061 91.11306000 0.000000e+00 0.000000e+00 5.309930e-05 0.000000e+00

934 5601060 614.22064209 -140.8592682 1.743813e+02 207.19372559 91.76223755 0.000000e+00 0.000000e+00 7.069990e-05 0.000000e+00

935 5601240 347.72659302 -113.5816727 1.341080e+02 73.05815125 27.10360718 0.000000e+00 0.000000e+00 5.437178e-05 0.000000e+00

936 5601420 34.78584671 -76.4228516 6.198256e+01 -49.27920151 -54.17798996 0.000000e+00 0.000000e+00 2.512976e-05 0.000000e+00

937 5601600 0.00000000 -66.9845810 4.238802e+01 -47.80340195 -61.53618240 0.000000e+00 0.000000e+00 1.718550e-05 0.000000e+00

938 5601780 0.00000000 -75.2675171 3.674556e+01 -58.73265457 -53.25754929 0.000000e+00 0.000000e+00 1.489785e-05 0.000000e+00

939 5601960 0.00000000 -69.7005539 2.537879e+01 -46.20440674 -48.85551071 0.000000e+00 0.000000e+00 1.028939e-05 0.000000e+00

940 5602140 163.19462585 -83.3506775 4.767746e+01 18.33839607 13.63420582 0.000000e+00 0.000000e+00 1.933001e-05 0.000000e+00

941 5602320 524.28796387 -116.1504822 1.404581e+02 164.64906311 102.82747650 0.000000e+00 0.000000e+00 5.694633e-05 0.000000e+00

942 5602500 612.49169922 -137.0711060 1.998348e+02 161.65592957 113.89191437 0.000000e+00 0.000000e+00 8.101957e-05 0.000000e+00

943 5602680 347.36782837 -108.2154312 1.501347e+02 39.16292953 49.99902725 0.000000e+00 0.000000e+00 6.086954e-05 0.000000e+00

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947 5603400 0.00000000 -62.3821106 2.578862e+01 -43.81181717 -44.34582520 0.000000e+00 0.000000e+00 1.045555e-05 0.000000e+00

948 5603580 163.92718506 -86.3148575 6.870300e+01 -18.45811653 27.15357971 0.000000e+00 0.000000e+00 2.785445e-05 0.000000e+00

949 5603760 526.30523682 -122.6202011 1.942724e+02 90.44194794 118.76129150 0.000000e+00 0.000000e+00 7.876440e-05 0.000000e+00

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1044 5620860 75.79990387 -33.1516228 5.532182e+01 -11.92361069 -0.85784322 0.000000e+00 8.560003e-06 2.242928e-05 9.575660e-04

1045 5621040 214.01029968 -33.2419968 8.464964e+01 54.03879929 41.99295425 0.000000e+00 2.840000e-06 3.431974e-05 4.730593e-05

1046 5621220 271.00585938 -40.9693031 1.104561e+02 62.62458801 56.90313721 0.000000e+00 5.599998e-07 4.478252e-05 3.672086e-06

1047 5621400 121.58994293 -19.8129253 8.363128e+01 -8.03750610 26.25136566 0.000000e+00 0.000000e+00 3.390686e-05 0.000000e+00

1048 5621580 5.60927200 -8.9026909 3.723700e+01 -29.03041267 -11.44614410 0.000000e+00 0.000000e+00 1.509710e-05 0.000000e+00

1049 5621760 0.00000000 -10.6315737 1.861497e+01 -10.57958031 -18.64423943 0.000000e+00 0.000000e+00 7.547121e-06 0.000000e+00

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1053 5622480 194.28234863 -7.6528039 6.075885e+01 90.44375610 35.36260605 0.000000e+00 2.004000e-05 2.463363e-05 4.604664e-03

1054 5622660 272.01217651 -17.9372959 7.940162e+01 130.26368713 44.37513733 0.000000e+00 1.056000e-05 3.219202e-05 7.185821e-04

1055 5622840 210.30635071 -28.2829075 9.336417e+01 71.57375336 17.16962624 0.000000e+00 8.818800e-04 3.785289e-05 1.462826e+00

1056 5623020 10.53175449 -27.6909637 2.041014e+01 -22.13968468 -15.39369583 0.000000e+00 1.132400e-04 8.274938e-06 8.826853e-02

1057 5623200 0.00000000 -12.1758089 1.110846e+01 -13.82229137 -9.46877670 0.000000e+00 2.896000e-05 4.503733e-06 1.085800e-02

1058 5623380 0.00000000 -20.6138363 4.990726e+00 -17.48230171 -8.10828114 0.000000e+00 2.896000e-05 2.023404e-06 1.070344e-02

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1064 5624460 6.35113764 -22.9897099 5.296327e+01 -18.43733788 -51.08394241 0.000000e+00 0.000000e+00 2.147305e-05 0.000000e+00

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1169 5643360 0.00000000 -53.9985237 2.660062e+00 -16.73910713 -39.89101028 0.000000e+00 0.000000e+00 1.078477e-06 0.000000e+00

1170 5643540 0.00000000 -36.9643135 3.079843e+00 -2.31826210 -37.71171951 0.000000e+00 0.000000e+00 1.248669e-06 0.000000e+00

1171 5643720 0.00000000 -26.6207523 3.489129e+00 4.52709532 -34.62063217 0.000000e+00 0.000000e+00 1.414607e-06 0.000000e+00

1172 5643900 101.16338348 -67.3983154 1.117379e+01 22.26425171 0.16717847 0.000000e+00 0.000000e+00 4.530222e-06 0.000000e+00

1173 5644080 306.16177368 -64.9799118 5.628217e+01 110.24668121 74.47840881 0.000000e+00 0.000000e+00 2.281864e-05 0.000000e+00

1174 5644260 448.32168579 -102.6279221 1.114611e+02 145.61349487 88.66594696 0.000000e+00 0.000000e+00 4.518997e-05 0.000000e+00

1175 5644440 128.29495239 -40.9020119 6.281451e+01 11.20937061 13.46080780 0.000000e+00 1.200000e-06 2.546706e-05 1.778919e-05

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1178 5644980 0.00000000 -44.4718513 2.802536e-01 -5.92509031 -38.80192566 0.000000e+00 7.999998e-08 1.136240e-07 3.616052e-06

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1181 5645520 432.51721191 -107.8325577 1.056084e+02 121.59290314 97.30804443 0.000000e+00 0.000000e+00 4.281710e-05 0.000000e+00

1182 5645700 496.21487427 -120.6651688 1.549494e+02 130.48127747 90.12963867 0.000000e+00 0.000000e+00 6.282156e-05 0.000000e+00

1183 5645880 227.43598938 -92.5832596 8.359219e+01 41.74503326 9.70569611 0.000000e+00 0.000000e+00 3.389102e-05 0.000000e+00

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1296 5666220 0.92885572 -23.5156097 1.477437e+01 -0.16312726 -37.12902451 0.000000e+00 0.000000e+00 5.990014e-06 0.000000e+00

1297 5666400 0.00000000 -44.3058662 2.776224e+00 -1.37097156 -45.66544724 0.000000e+00 0.000000e+00 1.125572e-06 0.000000e+00

1298 5666580 0.00000000 -54.2559967 2.232693e-01 -2.76307011 -51.68806076 0.000000e+00 0.000000e+00 9.052071e-08 0.000000e+00

1299 5666760 0.00000000 -46.0656738 9.618101e-03 -2.73147178 -43.33888626 0.000000e+00 0.000000e+00 3.899494e-09 0.000000e+00

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1301 5667120 334.51815796 -97.5233231 7.238008e+01 70.71814728 93.73232269 0.000000e+00 0.000000e+00 2.934526e-05 0.000000e+00

1302 5667300 418.46737671 -107.8761368 1.253998e+02 94.42014313 90.77603149 0.000000e+00 0.000000e+00 5.084120e-05 0.000000e+00

1303 5667480 166.73365784 -77.3739319 6.684209e+01 17.89846039 4.82504416 0.000000e+00 0.000000e+00 2.709998e-05 0.000000e+00

1304 5667660 1.27274466 -52.4278755 6.490194e+00 -6.91452742 -50.70289230 0.000000e+00 0.000000e+00 2.631338e-06 0.000000e+00

1305 5667840 0.00000000 -40.3234100 3.605839e+00 -8.90762806 -34.99907303 0.000000e+00 0.000000e+00 1.461925e-06 0.000000e+00

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1307 5668200 0.00000000 -44.8925362 -3.343659e-02 -4.86002111 -39.98861694 0.000000e+00 0.000000e+00 -1.355629e-08 0.000000e+00

1308 5668380 54.03535461 -55.6001778 4.699816e+00 -3.31082916 -3.11126423 0.000000e+00 0.000000e+00 1.905460e-06 0.000000e+00

1309 5668560 340.44213867 -102.6973801 8.506812e+01 58.91308212 93.59296417 0.000000e+00 0.000000e+00 3.448941e-05 0.000000e+00

1310 5668740 420.92004395 -110.8988266 1.409740e+02 77.89704132 91.16387177 0.000000e+00 0.000000e+00 5.715546e-05 0.000000e+00

1311 5668920 164.14147949 -77.5757828 8.435104e+01 2.34053111 0.09195105 0.000000e+00 1.092000e-05 3.419867e-05 2.081024e-03

1312 5669100 0.98512220 -52.6166878 2.228388e+01 -19.55761909 -54.32591629 0.000000e+00 1.404001e-05 9.034617e-06 3.622180e-03

1313 5669280 0.00000000 -38.1297722 2.137296e+01 -25.08150291 -34.41506958 0.000000e+00 2.500001e-05 8.665301e-06 7.725061e-03

1314 5669460 0.00000000 -1.9181226 2.507370e+01 -3.14717746 -23.83531189 0.000000e+00 2.056000e-05 1.016570e-05 6.145533e-03

1315 5669640 0.00000000 -8.6241798 2.518059e+01 -2.51349211 -31.25812721 0.000000e+00 3.244000e-05 1.020904e-05 1.037723e-02

1316 5669820 43.38687134 -31.8439178 3.654367e+01 -1.29942191 -23.74417877 0.000000e+00 2.823999e-05 1.481600e-05 8.837607e-03

1317 5670000 317.12847900 -84.9663162 8.626009e+01 118.79986572 26.99521828 0.000000e+00 5.200000e-07 3.497268e-05 9.984604e-06

1318 5670180 414.72573853 -107.9414673 1.181093e+02 151.94015503 36.73723984 0.000000e+00 1.680000e-06 4.788538e-05 1.696414e-05

1319 5670360 158.51158142 -76.8559875 7.192517e+01 29.50485992 -19.63490868 0.000000e+00 0.000000e+00 2.916082e-05 0.000000e+00

1320 5670540 0.33856794 -23.8963223 3.391777e+01 -7.54116631 -49.87315369 0.000000e+00 0.000000e+00 1.375138e-05 0.000000e+00

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1325 5671440 330.94540405 -110.9638596 7.934876e+01 72.52198792 67.92830658 0.000000e+00 0.000000e+00 3.217059e-05 0.000000e+00

1326 5671620 399.76296997 -112.1161270 1.176850e+02 95.62145233 74.34516144 0.000000e+00 0.000000e+00 4.771336e-05 0.000000e+00

1327 5671800 154.87107849 -80.5810394 6.677459e+01 15.40361404 -7.70095444 0.000000e+00 0.000000e+00 2.707261e-05 0.000000e+00

1328 5671980 0.00000000 -44.9590912 2.725515e+01 -16.34034538 -55.82239151 0.000000e+00 0.000000e+00 1.105013e-05 0.000000e+00

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1332 5672700 58.87062454 -69.8161926 2.196077e+01 -18.40124512 -14.64306736 0.000000e+00 0.000000e+00 8.903618e-06 0.000000e+00

1333 5672880 345.14749146 -107.3933182 8.699606e+01 70.32871246 80.24711609 0.000000e+00 0.000000e+00 3.527106e-05 0.000000e+00

1334 5673060 405.67984009 -116.7305527 1.202384e+02 84.84274292 83.86956024 0.000000e+00 0.000000e+00 4.874861e-05 0.000000e+00

1335 5673240 151.58296204 -82.5620346 6.400805e+01 10.34170151 -5.10687399 0.000000e+00 0.000000e+00 2.595096e-05 0.000000e+00

1336 5673420 0.00000000 -60.6385155 8.885820e+00 -5.95347786 -63.52789307 0.000000e+00 0.000000e+00 3.602602e-06 0.000000e+00

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1342 5674500 401.40487671 -110.2932663 1.270562e+02 76.49057770 87.54886627 0.000000e+00 0.000000e+00 5.151274e-05 0.000000e+00

1343 5674680 149.66181946 -78.1916199 6.003402e+01 6.19673681 5.45133734 0.000000e+00 0.000000e+00 2.433976e-05 0.000000e+00

1344 5674860 0.00000000 -48.9125061 3.818492e+00 -2.90839100 -49.79220581 0.000000e+00 0.000000e+00 1.548142e-06 0.000000e+00

1345 5675040 0.00000000 -43.8121376 5.532406e+00 -9.36303711 -39.97210312 0.000000e+00 0.000000e+00 2.243019e-06 0.000000e+00

1346 5675220 0.00000000 -34.5241508 2.835856e+01 -46.61016846 -16.29242706 0.000000e+00 0.000000e+00 1.149749e-05 0.000000e+00

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1352 5676300 0.00000000 -32.2927551 2.606584e+01 -2.87233901 -55.43731689 0.000000e+00 1.080000e-06 1.056795e-05 2.599706e-05

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1355 5676840 0.00000000 -39.8562851 2.309936e+01 -19.55982208 -43.41604996 0.000000e+00 9.800001e-06 9.365237e-06 2.371595e-03

1356 5677020 13.28159714 -9.0006027 3.870446e+01 -16.31033897 -18.16965294 0.000000e+00 5.511999e-05 1.569206e-05 1.824366e-02

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1358 5677380 154.99099731 -24.3204670 8.345972e+01 19.64567757 27.55459785 0.000000e+00 1.015600e-04 3.383732e-05 3.702537e-02

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1374 5680260 381.69186401 -109.3505325 1.088825e+02 82.89767456 80.56002045 0.000000e+00 0.000000e+00 4.414452e-05 0.000000e+00

1375 5680440 106.83455658 -37.7668724 6.652241e+01 -4.71315527 7.40122986 0.000000e+00 0.000000e+00 2.697036e-05 0.000000e+00

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1381 5681520 298.72497559 -100.7939072 7.456542e+01 45.08813095 78.10163116 0.000000e+00 0.000000e+00 3.023126e-05 0.000000e+00

1382 5681700 322.98989868 -78.9006805 1.033794e+02 65.78898621 74.94114685 0.000000e+00 0.000000e+00 4.191342e-05 0.000000e+00

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1385 5682240 0.00000000 -51.6673470 1.101865e+01 -11.42000580 -51.23371887 0.000000e+00 0.000000e+00 4.467321e-06 0.000000e+00

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1388 5682780 37.68690109 -68.8815460 1.788251e+01 -22.85808372 -26.33020210 0.000000e+00 0.000000e+00 7.250154e-06 0.000000e+00

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1673 5734080 0.00000000 -50.2189789 4.240836e+00 -3.21914220 -50.16674805 0.000000e+00 0.000000e+00 1.028516e-06 0.000000e+00

1674 5734260 0.00000000 -55.3225288 2.050279e+00 -23.56064415 -31.79463768 0.000000e+00 0.000000e+00 -6.357459e-07 0.000000e+00

1675 5734440 0.00000000 -26.6494579 4.035189e-01 -21.40646172 -6.87110090 0.000000e+00 0.000000e+00 -3.477572e-07 0.000000e+00

1676 5734620 7.93177938 -7.8447304 1.463962e+00 -4.83303404 -0.54508811 0.000000e+00 0.000000e+00 2.066067e-06 0.000000e+00

1677 5734800 80.39688873 -40.2416992 3.374465e+00 13.34486675 13.53786182 0.000000e+00 0.000000e+00 3.976321e-06 0.000000e+00

1678 5734980 97.41242218 -13.5800562 6.083582e+00 31.64234734 28.52547455 0.000000e+00 0.000000e+00 8.220713e-06 6.297592e-05

1679 5735160 30.12473488 -22.6780605 4.376412e+00 5.54276228 -4.70836735 0.000000e+00 0.000000e+00 3.580190e-06 2.118940e-05

1680 5735340 0.00000000 -49.7477531 1.794891e+00 -11.02473831 -34.09367371 0.000000e+00 0.000000e+00 -3.087767e-07 0.000000e+00

1681 5735520 0.00000000 -47.2411346 2.766245e+00 -8.79690170 -37.97194672 0.000000e+00 0.000000e+00 2.728639e-07 0.000000e+00

1682 5735700 0.00000000 -49.8830299 2.142425e+00 -11.87863636 -36.97107315 0.000000e+00 0.000000e+00 6.208021e-08 0.000000e+00

1683 5735880 0.00000000 -47.9586220 1.189349e+00 -15.46489811 -32.26123428 3.199999e-07 0.000000e+00 -4.701700e-07 0.000000e+00

1684 5736060 5.84512663 -29.9990559 1.166376e+00 -9.76955318 -16.47257423 3.160000e-06 0.000000e+00 -8.195301e-08 0.000000e+00

1685 5736240 120.72389984 -42.2033119 3.524825e+00 13.90718365 40.61849594 5.349000e-05 1.783000e-05 2.916934e-06 1.771893e-02

1686 5736420 170.04232788 -39.0425682 8.786893e+00 28.15694427 52.63823318 0.000000e+00 1.280000e-05 3.867441e-06 7.011493e-02

1687 5736600 35.87339401 -23.4680462 5.534788e+00 1.77310467 -0.41830674 7.733335e-07 3.866667e-07 3.098893e-06 6.324124e-03

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1689 5736960 0.00000000 -21.0163612 3.165946e+00 -4.36758327 -18.81910515 1.200000e-07 0.000000e+00 9.975868e-07 0.000000e+00

1690 5737140 0.00000000 -21.5923157 2.347762e+00 -5.62340355 -17.39120865 2.400000e-07 0.000000e+00 5.684507e-07 0.000000e+00

1691 5737320 0.00000000 -17.9568958 3.076859e+00 -2.85039926 -17.37896919 3.999999e-08 0.000000e+00 1.088787e-06 0.000000e+00

1692 5737500 6.56918573 -24.4272614 1.867874e+00 -3.95769763 -15.06092834 1.200000e-07 0.000000e+00 3.823857e-07 0.000000e+00

1693 5737680 127.28267670 -42.3103218 5.239114e+00 23.92041206 37.15269089 0.000000e+00 0.000000e+00 3.022895e-06 1.599450e-02

1694 5737860 137.01890564 -32.3155098 7.410165e+00 25.94142914 43.58005142 0.000000e+00 0.000000e+00 2.979155e-06 3.817374e-02

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1708 5740380 7.40836334 -8.4165287 5.677023e+00 17.17164230 -29.87553978 0.000000e+00 0.000000e+00 4.616020e-06 0.000000e+00

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1710 5740740 80.29763031 -2.2778740 8.656505e+00 59.11411667 -5.90175867 0.000000e+00 0.000000e+00 9.162540e-06 0.000000e+00

1711 5740920 32.98198318 -30.8500690 6.085455e+00 21.48956490 -30.24153137 0.000000e+00 0.000000e+00 4.698459e-06 0.000000e+00

1712 5741100 0.00000000 -34.0633583 4.356914e+00 10.64912987 -48.03457260 0.000000e+00 0.000000e+00 1.987139e-06 0.000000e+00

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1717 5742000 99.66292572 -39.0851631 3.884007e+00 28.48465157 19.05410957 0.000000e+00 0.000000e+00 2.973496e-06 0.000000e+00

1718 5742180 100.30916595 -23.4548798 5.558446e+00 34.02383804 28.50732422 0.000000e+00 0.000000e+00 5.110790e-06 0.000000e+00

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1733 5744880 59.94844437 -16.1423969 1.150846e+00 10.63292313 21.97116661 5.591999e-05 0.000000e+00 2.634658e-06 0.000000e+00

1734 5745060 73.87401581 -9.9646835 3.373411e+00 25.28944588 23.46051216 4.264001e-05 0.000000e+00 5.730299e-06 0.000000e+00

1735 5745240 22.06611633 -22.0071774 2.649094e+00 6.27803850 -7.64172697 0.000000e+00 0.000000e+00 2.167542e-06 0.000000e+00

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1799 5756760 34.36420441 -60.2052116 4.515144e+00 22.38112450 -49.98247910 0.000000e+00 0.000000e+00 2.803926e-06 0.000000e+00

1800 5756940 0.00000000 -56.2005615 3.685764e+00 3.37789273 -60.29772949 0.000000e+00 0.000000e+00 1.044296e-06 0.000000e+00

1801 5757120 0.00000000 -50.0805702 3.404502e+00 -0.52480948 -51.94275284 0.000000e+00 0.000000e+00 9.487976e-07 0.000000e+00

1802 5757300 0.00000000 -46.0865631 2.789898e+00 -1.39800847 -45.88664627 0.000000e+00 0.000000e+00 8.053075e-07 0.000000e+00

1803 5757480 0.00000000 -44.5396423 2.607475e+00 -0.66853476 -45.53574753 0.000000e+00 0.000000e+00 8.024126e-07 0.000000e+00

1804 5757660 3.33601189 -27.4808292 3.254759e+00 9.28371525 -39.67792130 0.000000e+00 0.000000e+00 1.178844e-06 0.000000e+00

1805 5757840 91.71602631 -44.8573570 4.277419e+00 41.42954636 -8.23393917 0.000000e+00 0.000000e+00 3.279167e-06 0.000000e+00

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1807 5758200 27.80217743 -42.0659866 4.346107e+00 18.84212494 -36.15015793 0.000000e+00 0.000000e+00 2.965946e-06 0.000000e+00

1808 5758380 0.00000000 -53.0439301 3.614300e+00 -6.19019556 -49.65265274 0.000000e+00 0.000000e+00 1.130864e-06 0.000000e+00

1809 5758560 0.00000000 17.8550873 4.780441e+00 33.31853485 -30.63009453 6.759999e-06 0.000000e+00 4.860100e-06 0.000000e+00

1810 5758740 0.00000000 -26.6186314 3.485209e+00 4.39642382 -37.29217911 8.160000e-06 0.000000e+00 2.830043e-06 0.000000e+00

1811 5758920 0.00000000 -41.0130577 3.202153e+00 -11.53526306 -34.87035370 2.024000e-05 0.000000e+00 1.599960e-06 0.000000e+00

1812 5759100 3.76094317 -12.2210588 3.306404e+00 7.84072161 -24.77127075 4.952001e-05 0.000000e+00 2.857514e-06 0.000000e+00

1813 5759280 111.44623566 -59.7388458 3.838882e+00 41.43896866 -4.81491804 6.268000e-05 0.000000e+00 4.337496e-06 0.000000e+00

1814 5759460 140.26234436 -51.0457458 4.459472e+00 62.41785049 7.07810354 2.104000e-05 0.000000e+00 6.569513e-06 0.000000e+00

1815 5759640 32.00720596 -57.0463257 2.065702e+00 -6.92363739 -16.64865494 0.000000e+00 0.000000e+00 9.282161e-07 0.000000e+00

1816 5759820 0.00000000 -40.1946907 1.165241e+00 -21.10978127 -19.79890060 0.000000e+00 0.000000e+00 -7.891947e-07 0.000000e+00

1817 5760000 0.00000000 15.2580490 2.050783e+00 10.60763550 -4.65270281 0.000000e+00 0.000000e+00 2.968378e-06 0.000000e+00

1818 5760180 0.00000000 -50.4404564 5.500755e-01 -19.65079117 -23.43271446 5.200000e-07 0.000000e+00 -8.789739e-07 0.000000e+00

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1820 5760540 5.03619671 -45.4185486 2.595632e-01 -18.19363403 -19.57831955 1.760000e-06 0.000000e+00 -1.042807e-06 0.000000e+00

1821 5760720 85.13782501 -45.7697411 1.492450e+00 13.38843250 12.45061779 1.200000e-07 0.000000e+00 1.868738e-06 0.000000e+00

1822 5760900 91.78589630 -20.8371277 3.338055e+00 34.71952820 18.84926224 0.000000e+00 0.000000e+00 5.717066e-06 0.000000e+00

1823 5761080 20.68832779 -3.7191594 3.166118e+00 14.82161617 -5.92243004 1.120000e-06 0.000000e+00 4.389419e-06 0.000000e+00

1824 5761260 0.00000000 -14.3175478 2.567742e+00 0.32725039 -19.94691467 1.080000e-05 0.000000e+00 2.157927e-06 0.000000e+00

1825 5761440 0.00000000 4.4094348 2.690292e+00 7.21212387 -12.12907410 1.223600e-04 0.000000e+00 3.121406e-06 0.000000e+00

1826 5761620 0.00000000 -32.3501854 1.660381e+00 -13.83150578 -14.26659679 4.612800e-04 0.000000e+00 1.589455e-07 0.000000e+00

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1828 5761980 3.83614564 -23.2213840 9.613519e-01 -8.00745296 -12.08813477 0.000000e+00 0.000000e+00 -5.585854e-07 0.000000e+00

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1836 5763600 50.08401871 -25.0517445 1.994666e+00 11.67894650 -2.17539072 0.000000e+00 0.000000e+00 4.445207e-06 0.000000e+00

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1838 5763960 14.95090866 -10.0395422 2.530063e+00 5.75694275 -8.15228367 0.000000e+00 0.000000e+00 4.136277e-06 0.000000e+00

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1854 5767020 0.00000000 -45.3803558 3.021349e+00 -7.87373590 -29.55681038 0.000000e+00 0.000000e+00 2.902144e-07 0.000000e+00

1855 5767200 0.00000000 -42.7956276 2.802615e+00 -7.75397491 -31.77007866 0.000000e+00 0.000000e+00 2.471244e-07 0.000000e+00

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1871 5770440 0.00000000 -50.3330879 1.057658e+00 -31.39087677 -16.57475090 0.000000e+00 0.000000e+00 8.199076e-08 0.000000e+00

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1874 5770980 137.32926941 -65.3684616 1.833250e+00 41.03610611 -6.77839422 0.000000e+00 0.000000e+00 1.131282e-05 0.000000e+00

1875 5771160 28.44908905 -55.0702248 1.917687e+00 -9.59108448 -13.11958218 0.000000e+00 0.000000e+00 2.868659e-06 0.000000e+00

1876 5771340 0.00000000 -25.3862152 1.976177e+00 -6.77450943 -17.41599655 0.000000e+00 0.000000e+00 4.217370e-07 0.000000e+00

1877 5771520 0.00000000 -36.3666191 1.871126e+00 -7.48316526 -19.46954536 0.000000e+00 0.000000e+00 8.140642e-08 0.000000e+00

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1926 5780340 0.00000000 -64.8461838 3.973643e-08 -44.28983688 -3.11938405 0.000000e+00 0.000000e+00 -4.201079e-06 0.000000e+00

1927 5780520 0.00000000 -61.4275856 3.973643e-08 -38.57945251 -4.84841299 0.000000e+00 0.000000e+00 -3.984045e-06 0.000000e+00

1928 5780700 4.17479658 -49.8385887 1.986822e-08 -29.99293518 -6.27233458 0.000000e+00 0.000000e+00 -3.059645e-06 0.000000e+00

1929 5780880 74.19364166 -51.7658958 -4.967054e-08 0.09866595 -5.72973633 0.000000e+00 0.000000e+00 3.065707e-06 0.000000e+00

1930 5781060 82.52056885 -22.0523319 0.000000e+00 25.26320457 -2.03525233 0.000000e+00 0.000000e+00 1.160392e-05 0.000000e+00

1931 5781240 17.28983498 -16.7056522 1.316269e-07 -1.99546432 -0.94071585 7.999998e-08 0.000000e+00 4.771244e-06 0.000000e+00

1932 5781420 0.00000000 -43.1425323 -6.953875e-08 -24.28286743 -3.23591995 7.572001e-05 0.000000e+00 -2.045725e-06 0.000000e+00

1933 5781600 0.00000000 -44.9408226 -1.986822e-08 -21.33124733 -6.00560713 2.687201e-04 0.000000e+00 -2.538453e-06 0.000000e+00

1934 5781780 0.00000000 -37.0034904 5.960464e-08 -19.92899895 -7.51906061 1.678800e-04 0.000000e+00 -2.391573e-06 0.000000e+00

1935 5781960 0.00000000 -36.7646523 1.986822e-08 -12.91931152 -7.68174791 0.000000e+00 0.000000e+00 -1.291657e-06 0.000000e+00

1936 5782140 2.91010380 -19.5982971 -2.980232e-08 -20.31711769 -8.65696812 3.220001e-05 0.000000e+00 -2.611620e-06 0.000000e+00

1937 5782320 76.32582855 -39.6076355 1.788139e-07 4.52822065 -6.34776354 3.200000e-06 0.000000e+00 4.172826e-06 0.000000e+00

1938 5782500 103.47875214 -39.4824257 1.788139e-07 9.15442371 -1.74696767 1.035000e-06 4.500000e-08 5.994003e-06 0.000000e+00

1939 5782680 22.59984398 -32.1379967 9.189049e-08 8.21132565 1.21143162 1.504000e-05 0.000000e+00 4.211095e-06 0.000000e+00

1940 5782860 0.00000000 -24.6490574 -4.221996e-08 -5.57929182 1.30287945 1.396000e-05 0.000000e+00 -9.026787e-07 0.000000e+00

1941 5783040 0.00000000 -31.5769653 3.973643e-08 -19.37600708 -0.72901458 0.000000e+00 0.000000e+00 -3.255959e-06 0.000000e+00

1942 5783220 0.00000000 -35.1540833 2.731880e-08 -22.13092613 -2.74671078 0.000000e+00 0.000000e+00 -1.723536e-06 0.000000e+00

1943 5783400 0.00000000 -36.2271423 6.208817e-08 -20.98129272 -4.10884047 2.732000e-05 0.000000e+00 1.109798e-06 0.000000e+00

1944 5783580 4.02693987 -30.3125687 0.000000e+00 -22.87509918 -6.59070158 2.411200e-04 0.000000e+00 2.502962e-06 0.000000e+00

1945 5783760 80.12880707 -33.9626732 1.986821e-07 23.75898170 -7.45030212 6.583997e-05 0.000000e+00 9.791812e-06 0.000000e+00

1946 5783940 115.17362213 -34.1534805 1.589457e-07 52.55340576 -7.19195938 3.663999e-05 0.000000e+00 1.490377e-05 0.000000e+00

1947 5784120 24.39542961 -11.3812637 -2.384186e-07 4.38770294 -7.66990042 0.000000e+00 0.000000e+00 9.560296e-06 0.000000e+00

1948 5784300 0.00000000 18.4281254 -1.589457e-07 5.64999199 -8.79940701 0.000000e+00 0.000000e+00 8.597505e-06 0.000000e+00

1949 5784480 0.00000000 -5.0965037 0.000000e+00 -5.36522436 -9.57558823 0.000000e+00 0.000000e+00 5.097100e-06 0.000000e+00

1950 5784660 0.00000000 -7.8506932 0.000000e+00 -8.12640667 -10.17206287 1.356000e-05 0.000000e+00 4.419608e-06 0.000000e+00

1951 5784840 0.00000000 -2.4520009 0.000000e+00 -5.44361496 -10.78110790 1.110000e-04 0.000000e+00 6.219229e-06 0.000000e+00

1952 5785020 0.65347821 8.1733027 -2.384186e-07 0.35430774 -11.21140671 1.205200e-04 0.000000e+00 6.532367e-06 0.000000e+00

1953 5785200 32.98366928 10.6672411 -2.384186e-07 23.32210350 -10.86152649 3.696000e-05 0.000000e+00 8.705593e-06 0.000000e+00

1954 5785380 41.88111115 7.1291175 3.973643e-07 27.31868935 -10.05348873 2.144000e-05 0.000000e+00 1.040931e-05 0.000000e+00

1955 5785560 11.36948776 9.0668859 -3.178914e-07 8.96986294 -9.50728798 9.879997e-06 0.000000e+00 8.747819e-06 0.000000e+00

1956 5785740 0.00000000 6.8011527 0.000000e+00 -3.56833100 -9.51355457 8.959997e-06 0.000000e+00 6.964999e-06 0.000000e+00

1957 5785920 0.00000000 2.7192223 0.000000e+00 -9.44562626 -9.55193520 2.840000e-06 0.000000e+00 7.308379e-06 0.000000e+00

1958 5786100 0.00000000 1.1875681 2.384186e-07 -10.38281727 -9.47849941 1.748000e-05 0.000000e+00 7.181525e-06 0.000000e+00

1959 5786280 0.00000000 -36.2319603 -1.589457e-07 -36.20310974 -9.56583214 5.972001e-05 0.000000e+00 5.126762e-06 0.000000e+00

1960 5786460 1.11893535 -57.5379677 0.000000e+00 -51.42163467 -9.91910744 4.480000e-05 0.000000e+00 3.133915e-06 0.000000e+00

1961 5786640 94.97301483 -73.6106644 -1.986822e-08 -0.78692740 -9.97896481 0.000000e+00 0.000000e+00 5.947295e-06 0.000000e+00

1962 5786820 144.07110596 -83.9383163 1.589457e-07 33.91199875 -8.95512676 7.759999e-06 0.000000e+00 9.241391e-06 0.000000e+00

1963 5787000 34.48127747 -71.6449814 7.931764e-08 -18.93771553 -7.96629667 0.000000e+00 0.000000e+00 2.405540e-06 0.000000e+00

1964 5787180 0.00000000 -53.7087135 1.862645e-09 -28.18466949 -8.70857811 0.000000e+00 0.000000e+00 -5.465267e-07 0.000000e+00

1965 5787360 0.00000000 -43.4011688 -4.967054e-09 -18.60693359 -10.43123055 0.000000e+00 0.000000e+00 -6.132446e-07 0.000000e+00

1966 5787540 0.00000000 -40.4582863 2.483527e-08 -26.13385963 -12.14335251 0.000000e+00 0.000000e+00 -1.057667e-06 0.000000e+00

1967 5787720 0.00000000 -44.4112129 0.000000e+00 -37.38263321 -12.77489853 0.000000e+00 0.000000e+00 -2.053795e-06 0.000000e+00

1968 5787900 3.47166133 -36.8139381 -1.390775e-07 -37.97082901 -11.93174648 0.000000e+00 0.000000e+00 -2.922750e-06 0.000000e+00

1969 5788080 81.06836700 -52.6253090 -1.986822e-08 1.95878446 -9.49088001 0.000000e+00 0.000000e+00 3.020959e-06 0.000000e+00

1970 5788260 83.97895050 -21.9207516 3.973643e-07 27.27882957 -6.18295240 0.000000e+00 0.000000e+00 9.066666e-06 0.000000e+00

1971 5788440 19.45340347 -21.1645069 -9.313226e-08 -3.10090852 -3.77250743 1.600000e-07 0.000000e+00 3.788455e-06 0.000000e+00

1972 5788620 0.00000000 -20.8331394 -2.980232e-08 -9.53500652 -3.31762004 5.200000e-07 0.000000e+00 1.881310e-06 0.000000e+00

1973 5788800 0.00000000 -35.3085213 4.967054e-08 -12.31148911 -4.43747044 7.999998e-08 0.000000e+00 -1.166975e-06 0.000000e+00

1974 5788980 0.00000000 -21.1051350 -9.934108e-09 -11.20557308 -6.21021032 0.000000e+00 0.000000e+00 -1.281471e-06 0.000000e+00

1975 5789160 0.00000000 -27.2551975 -3.973643e-08 -15.86882496 -7.14600134 0.000000e+00 0.000000e+00 -1.770817e-06 0.000000e+00

1976 5789340 3.53796124 -37.0694389 3.973643e-08 -25.58631325 -7.43315840 0.000000e+00 0.000000e+00 -2.335493e-06 0.000000e+00

1977 5789520 74.82949829 -38.3307457 2.036492e-07 19.60968971 -6.97699356 0.000000e+00 0.000000e+00 6.291290e-06 0.000000e+00

1978 5789700 79.44463348 -10.9220533 -6.357829e-07 42.95724869 -6.19365311 0.000000e+00 0.000000e+00 1.090722e-05 0.000000e+00

1979 5789880 18.68984604 -27.8057842 3.973643e-08 0.10210001 -6.01007605 0.000000e+00 0.000000e+00 4.629548e-06 0.000000e+00

1980 5790060 0.00000000 -22.0719051 -3.476937e-08 -9.75794125 -7.22400475 0.000000e+00 0.000000e+00 1.943306e-06 0.000000e+00

1981 5790240 0.00000000 -47.0017433 -3.725290e-09 -17.02128029 -8.97831821 0.000000e+00 0.000000e+00 -5.635424e-07 0.000000e+00

1982 5790420 0.00000000 -39.8470573 2.980232e-08 -22.62274742 -11.26890087 0.000000e+00 0.000000e+00 -1.082016e-06 0.000000e+00

1983 5790600 0.00000000 -35.7251587 3.973643e-08 -18.33098793 -12.43192959 0.000000e+00 0.000000e+00 -8.975856e-07 0.000000e+00

1984 5790780 3.59206176 -30.9234524 -4.967054e-08 -20.61717033 -12.87322235 0.000000e+00 0.000000e+00 -1.147617e-06 0.000000e+00

1985 5790960 77.31156158 -43.0437164 8.692344e-09 -0.07502580 -11.82521057 0.000000e+00 0.000000e+00 1.500680e-06 0.000000e+00

1986 5791140 77.96379852 -18.6423206 4.768372e-07 27.88431358 -7.77192116 0.000000e+00 0.000000e+00 8.864220e-06 0.000000e+00

1987 5791320 33.49543381 -58.0168114 6.705523e-08 -10.81587982 -4.93417597 0.000000e+00 0.000000e+00 1.534943e-06 0.000000e+00

1988 5791500 0.00000000 -30.5984325 1.466833e-08 -17.64630890 -4.94136286 0.000000e+00 0.000000e+00 -1.103240e-07 0.000000e+00

1989 5791680 0.00000000 -47.1014214 -3.973643e-08 -28.44663239 -6.08729601 0.000000e+00 0.000000e+00 -2.265676e-06 0.000000e+00

1990 5791860 0.00000000 -38.6803474 9.934107e-08 -26.17841911 -7.22363424 0.000000e+00 0.000000e+00 -2.146540e-06 0.000000e+00

1991 5792040 0.00000000 -37.3487244 -1.589457e-07 -33.91112900 -7.41827393 0.000000e+00 0.000000e+00 -4.201116e-06 0.000000e+00

1992 5792220 2.65917373 -42.5219879 0.000000e+00 -32.27200317 -6.26929331 0.000000e+00 0.000000e+00 -4.233767e-06 0.000000e+00

1993 5792400 76.87284851 -46.4451103 -4.967054e-08 10.19321537 -4.57618427 0.000000e+00 0.000000e+00 4.384192e-06 0.000000e+00

1994 5792580 74.54380798 -21.2719536 0.000000e+00 27.69823265 -2.75283265 0.000000e+00 0.000000e+00 8.756278e-06 0.000000e+00

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1997 5793120 0.00000000 -25.7392979 -7.947286e-08 -19.91706467 -4.71274710 2.571999e-05 0.000000e+00 -3.204075e-06 0.000000e+00

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1999 5793480 0.00000000 -51.6466980 -1.192093e-07 -34.30522537 -4.61412525 6.811999e-05 0.000000e+00 -4.986280e-06 0.000000e+00

2000 5793660 4.92874718 -53.9780235 -3.973643e-08 -23.70997810 -4.56892824 9.988000e-05 0.000000e+00 -3.452888e-06 0.000000e+00

2001 5793840 66.38278961 -42.4586105 5.960464e-08 -2.06145835 -4.85512924 2.571999e-05 0.000000e+00 2.514035e-07 0.000000e+00

2002 5794020 85.99037933 -34.0728264 -1.192093e-07 19.73445702 -3.09895420 2.571999e-05 0.000000e+00 7.196054e-06 0.000000e+00

2003 5794200 17.25957298 -22.7527752 -1.440446e-07 1.37398040 -1.38325346 0.000000e+00 0.000000e+00 2.633714e-06 0.000000e+00

2004 5794380 0.00000000 -26.6689091 1.986821e-07 -20.66918945 -1.16314054 0.000000e+00 0.000000e+00 -4.458803e-06 0.000000e+00

2005 5794560 0.00000000 -22.9624481 5.836288e-08 -16.80365181 -0.94381237 0.000000e+00 0.000000e+00 -7.784438e-07 0.000000e+00

2006 5794740 0.00000000 -66.9505768 -2.384186e-07 -45.39855576 -0.94663191 0.000000e+00 0.000000e+00 -5.383130e-06 0.000000e+00

2007 5794920 0.00000000 -41.6409874 5.463759e-08 -34.10808945 -1.51175976 0.000000e+00 0.000000e+00 -1.520437e-06 0.000000e+00

2008 5795100 2.14782238 -0.8647690 1.192093e-07 -7.59416914 -1.96846092 0.000000e+00 0.000000e+00 3.879702e-06 0.000000e+00

2009 5795280 69.87602234 -29.5333309 1.589457e-07 14.80595303 -2.14353776 0.000000e+00 0.000000e+00 8.302836e-06 0.000000e+00

2010 5795460 83.37042236 -11.0269556 -5.563100e-07 38.62212372 -1.95081997 0.000000e+00 0.000000e+00 1.365586e-05 0.000000e+00

2011 5795640 17.71237373 -36.1844025 -1.490116e-08 -5.16824102 -2.18000102 2.280001e-06 0.000000e+00 3.482824e-06 0.000000e+00

2012 5795820 0.00000000 -60.3683739 5.960464e-08 -32.91021347 -3.92148280 1.360000e-06 0.000000e+00 -2.552440e-06 0.000000e+00

2013 5796000 0.00000000 -28.2957382 -7.388493e-08 -18.64626694 -6.15751982 2.400000e-07 0.000000e+00 -8.997646e-07 0.000000e+00

2014 5796180 0.00000000 -44.4018135 -9.934108e-09 -13.38075924 -7.57076502 9.200000e-07 0.000000e+00 -2.382076e-07 0.000000e+00

2015 5796360 0.00000000 -28.1385479 0.000000e+00 -13.31097031 -9.45941448 1.480000e-05 0.000000e+00 -7.341385e-07 0.000000e+00

2016 5796540 4.40062189 -40.0794907 9.934108e-09 -16.66191673 -10.74401569 1.144000e-05 0.000000e+00 -8.816361e-07 0.000000e+00

2017 5796720 75.62816620 -40.3712959 -2.483527e-08 10.10402679 -11.10394287 1.968001e-05 0.000000e+00 3.218476e-06 0.000000e+00

2018 5796900 89.47265625 -26.7208118 -1.589457e-07 40.01667023 -9.13326931 9.519998e-06 0.000000e+00 9.189053e-06 0.000000e+00

2019 5797080 22.54066658 -6.4540086 -3.973643e-08 15.40391254 -7.68190193 3.180001e-05 0.000000e+00 6.544346e-06 0.000000e+00

2020 5797260 0.00000000 -60.2658424 0.000000e+00 -39.82700729 -7.95646667 9.040000e-06 0.000000e+00 -7.672547e-07 0.000000e+00

2021 5797440 0.00000000 -53.5701942 9.934108e-09 -42.32179260 -9.04794025 4.527999e-05 0.000000e+00 -1.635793e-06 0.000000e+00

2022 5797620 0.00000000 -34.9242401 1.047738e-08 -27.82312775 -9.28445911 2.159999e-05 0.000000e+00 -1.472429e-07 0.000000e+00

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2025 5798160 44.60937881 2.4619477 -3.973643e-08 25.33629608 -8.97943592 2.456000e-05 0.000000e+00 6.350856e-06 0.000000e+00

2026 5798340 82.23967743 -5.1795259 0.000000e+00 48.11126328 -7.70060730 9.024003e-05 0.000000e+00 1.008285e-05 0.000000e+00

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2032 5799420 4.20502329 -42.1841736 -7.947286e-08 -22.80866432 -9.12338257 1.265200e-04 0.000000e+00 -8.473653e-07 0.000000e+00

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2057 5803920 68.54871368 -29.7733917 1.986822e-08 -3.47281480 -9.43340302 0.000000e+00 0.000000e+00 1.510860e-07 0.000000e+00

2058 5804100 82.21439362 -24.5183048 -1.589457e-07 26.57503319 -7.52040482 3.040000e-06 0.000000e+00 9.332120e-06 0.000000e+00

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Qsb\_acc Qsm\_acc SnowT\_tavg AvgSurfT\_inst Albedo\_inst SWE\_inst SnowDepth\_inst SoilMoist\_S\_inst SoilMoist\_RZ\_inst

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2019 0 0.000000e+00 260.1725 257.7745 55.19651 45.367256165 2.348318e-01 4.816459 235.0678

2020 0 0.000000e+00 255.6738 255.2324 NaN 45.473182678 2.351922e-01 4.816445 235.0671

2021 0 0.000000e+00 255.6573 256.9443 NaN 45.979877472 2.381922e-01 4.816432 235.0665

2022 0 0.000000e+00 257.3916 257.6250 NaN 46.214744568 2.394413e-01 4.816419 235.0658

2023 0 0.000000e+00 257.1155 255.8998 NaN 46.820808411 2.431733e-01 4.816405 235.0651

2024 0 0.000000e+00 255.3880 258.5878 55.24796 47.387866974 2.466062e-01 4.816392 235.0645

2025 0 0.000000e+00 260.5228 261.8418 55.14643 47.584526062 2.476176e-01 4.816379 235.0639

2026 0 0.000000e+00 262.9547 263.0579 55.22987 48.450241089 2.530788e-01 4.816367 235.0632

2027 0 0.000000e+00 261.4032 259.8191 55.39153 48.400821686 2.524021e-01 4.816354 235.0626

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2030 0 0.000000e+00 254.9579 256.2270 NaN 51.184600830 2.697971e-01 4.816317 235.0608

2031 0 0.000000e+00 256.2484 254.6783 NaN 52.604583740 2.788455e-01 4.816305 235.0602

2032 0 0.000000e+00 252.9838 253.6935 55.68917 53.980167389 2.875407e-01 4.816294 235.0596

2033 0 0.000000e+00 258.7271 261.2852 55.57833 53.976852417 2.870667e-01 4.816282 235.0590

2034 0 0.000000e+00 261.4997 261.3097 55.57295 53.897857666 2.860919e-01 4.816270 235.0584

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2203 0 0.000000e+00 254.3217 251.5058 52.81662 69.721969604 2.803561e-01 4.934196 240.9911

2204 0 0.000000e+00 251.5061 250.8900 NaN 69.692070007 2.800651e-01 4.932525 240.9065

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2213 0 0.000000e+00 244.9552 244.0259 NaN 69.374206543 2.772758e-01 4.918751 240.2096

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2226 0 2.501555e-01 272.7689 273.1600 52.72679 70.146514893 2.809602e-01 4.902698 239.3987

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2253 0 0.000000e+00 257.2280 258.2389 NaN 67.722267151 2.480008e-01 4.949175 241.7506

2254 0 0.000000e+00 257.4915 257.0814 NaN 67.752418518 2.481125e-01 4.947433 241.6622

2255 0 0.000000e+00 256.5230 255.7203 NaN 67.784904480 2.482363e-01 4.945724 241.5755

2256 0 0.000000e+00 256.3287 256.9528 51.42474 67.806777954 2.483185e-01 4.944040 241.4901

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2258 0 0.000000e+00 261.2961 260.5102 51.46949 68.152862549 2.509170e-01 4.940763 241.3239

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2271 0 0.000000e+00 253.0432 252.7416 NaN 67.767532349 2.482058e-01 4.922146 240.3813

2272 0 0.000000e+00 252.4862 253.7771 51.44159 67.765701294 2.481284e-01 4.920910 240.3187

SoilMoist\_P\_inst SoilTMP0\_10cm\_inst SoilTMP10\_29cm\_inst SoilTMP29\_68cm\_inst SoilTMP68\_144cm\_inst SoilTMP144\_295cm\_inst

1 1493.303 287.7304 283.9041 281.4017 278.4897 276.7027

2 1493.856 284.6477 284.0279 281.4412 278.5081 276.7095

3 1493.741 282.5141 283.7950 281.4766 278.5267 276.7163

4 1493.648 281.2183 283.3973 281.4991 278.5454 276.7231

5 1493.546 280.6916 282.9650 281.5060 278.5639 276.7300

6 1493.400 280.9363 282.5873 281.4985 278.5822 276.7369

7 1493.110 282.3937 282.3979 281.4812 278.6003 276.7438

8 1492.765 283.5273 282.4233 281.4624 278.6178 276.7508

9 1494.805 282.9670 282.4736 281.4470 278.6351 276.7577

10 1495.597 281.6837 282.3900 281.4324 278.6520 276.7647

11 1495.531 280.5921 282.1653 281.4134 278.6685 276.7717

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15 1495.420 280.6651 280.9293 281.2429 278.7299 276.7998

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2257 1445.234 270.8307 272.0001 273.1600 274.9230 278.5725

2258 1445.233 270.7121 271.8392 273.1600 274.9203 278.5656

2259 1445.233 270.6164 271.7138 273.1600 274.9176 278.5588

2260 1445.233 270.3897 271.5968 273.1600 274.9149 278.5520

2261 1445.233 270.0330 271.4493 273.1600 274.9122 278.5452

2262 1445.233 269.6441 271.2629 273.1600 274.9095 278.5384

2263 1445.233 269.2629 271.0513 273.1600 274.9069 278.5316

2264 1445.234 268.9033 270.8261 273.1600 274.9042 278.5249

2265 1445.234 268.6745 270.6083 273.1600 274.9015 278.5182

2266 1445.234 268.7036 270.4472 273.1600 274.8988 278.5114

2267 1445.235 268.8679 270.3740 273.1600 274.8961 278.5047

2268 1445.235 268.9343 270.3592 273.1600 274.8934 278.4980

2269 1445.234 268.8708 270.3483 273.1600 274.8907 278.4913

2270 1445.234 268.7684 270.3201 273.1600 274.8880 278.4846

2271 1445.234 268.6651 270.2776 273.1600 274.8852 278.4779

2272 1445.233 268.5581 270.2257 273.1600 274.8825 278.4713

SoilTMP295\_1295cm\_inst ECanop\_tavg TVeg\_tavg ESoil\_tavg CanopInt\_inst ACond\_tavg TWS\_inst Wind\_f\_inst Rainf\_f\_tavg

1 281.4973 1.202075e+01 1.614672e+00 1.054521e+02 1.301935e-02 0.0328153484 1493.316 8.83043289 2.848888e-04

2 281.4969 1.115230e+01 9.527995e-03 4.279508e+01 2.429634e-02 0.0344879366 1493.881 7.04267740 7.800000e-05

3 281.4965 4.207023e+00 5.317378e-07 2.647188e+01 5.875155e-03 0.0341669209 1493.747 8.98027039 0.000000e+00

4 281.4961 5.239890e-01 5.317378e-08 2.120988e+01 3.580777e-03 0.0340975598 1493.651 7.42036295 0.000000e+00

5 281.4957 2.502834e-01 0.000000e+00 2.331831e+01 2.484868e-03 0.0354229100 1493.549 8.90135574 0.000000e+00

6 281.4953 8.109117e-01 2.126951e-07 3.340740e+01 4.768758e-03 0.0419833660 1493.405 9.85600567 5.555557e-07

7 281.4950 7.503594e-01 1.656618e-01 6.589295e+01 1.483178e-03 0.0477572419 1493.112 10.22601604 0.000000e+00

8 281.4946 3.864290e+00 6.490018e-01 7.863114e+01 6.606908e-03 0.0482709147 1492.771 9.55982304 2.111112e-06

9 281.4942 1.210076e+01 2.819359e-02 5.982731e+01 1.632569e-02 0.0417047180 1494.822 8.19795418 2.317778e-04

10 281.4938 9.698522e+00 1.169823e-06 3.181496e+01 3.274438e-02 0.0291016009 1495.630 5.30600786 9.655556e-05

11 281.4934 8.089803e+00 1.595213e-07 1.775269e+01 3.457560e-02 0.0241809562 1495.565 6.22568893 4.444445e-06

12 281.4930 5.414326e+00 3.190427e-07 1.208417e+01 3.238961e-02 0.0237744879 1495.516 5.63174820 2.555556e-06

13 281.4926 6.044062e+00 2.126951e-07 1.282102e+01 3.467029e-02 0.0238906089 1495.470 5.69825697 3.444445e-06

14 281.4922 1.230390e+01 4.785640e-07 2.119264e+01 3.340213e-02 0.0276815891 1495.570 6.03729677 2.366666e-05

15 281.4919 1.842066e+01 3.163436e-02 5.168463e+01 1.364490e-02 0.0344600417 1495.433 7.07743311 1.633333e-05

16 281.4915 7.983061e+00 1.275805e+00 8.982601e+01 7.312495e-03 0.0385203920 1495.029 7.00637913 2.777778e-06

17 281.4911 1.218982e+00 2.715440e-01 6.358220e+01 1.974971e-03 0.0354830027 1494.745 7.09913826 0.000000e+00

18 281.4907 1.019511e-01 -1.063476e-07 3.324180e+01 1.528561e-03 0.0268404111 1494.599 4.58951950 0.000000e+00

19 281.4903 4.038784e-02 1.063476e-07 2.243033e+01 1.351716e-03 0.0226584747 1494.500 5.37757587 0.000000e+00

20 281.4899 2.667852e-02 -1.595213e-07 1.811226e+01 1.234899e-03 0.0235435721 1494.421 5.48999071 0.000000e+00

21 281.4896 1.564848e-02 -1.063476e-07 1.259350e+01 1.166380e-03 0.0233048294 1494.366 5.67247915 0.000000e+00

22 281.4892 1.036371e+00 4.039920e-02 3.474061e+01 5.946429e-03 0.0277843457 1494.219 5.51709414 8.888890e-07

23 281.4888 1.366797e+01 1.658372e+00 8.496751e+01 1.030831e-02 0.0307581294 1493.847 5.15646935 6.333333e-06

24 281.4884 1.528623e+01 4.968398e+00 1.239271e+02 1.071467e-02 0.0287489798 1493.291 3.93849349 6.999999e-06

25 281.4881 2.074197e+00 5.399908e+00 9.902380e+01 1.632443e-03 0.0192198288 1492.825 1.46960866 0.000000e+00

26 281.4877 5.745326e-02 3.542596e-01 4.219769e+01 1.380874e-03 0.0106820203 1492.638 4.46595526 0.000000e+00

27 281.4873 5.833267e-02 1.169823e-06 4.485700e+01 1.125454e-03 0.0216685701 1492.442 7.51237965 0.000000e+00

28 281.4870 3.895822e-02 0.000000e+00 3.861616e+01 9.548691e-04 0.0260953363 1492.273 6.94825411 0.000000e+00

29 281.4866 8.276299e-03 1.595213e-07 1.614846e+01 9.186300e-04 0.0102778887 1492.202 6.74255943 0.000000e+00

30 281.4862 4.790277e-02 3.125807e-01 5.937633e+01 7.088794e-04 0.0351109914 1491.940 8.49912262 0.000000e+00

31 281.4858 5.027760e-02 1.231883e+00 9.892352e+01 4.887301e-04 0.0432513654 1491.501 9.75277615 0.000000e+00

32 281.4855 3.700307e-02 3.446669e+00 1.363574e+02 3.267057e-04 0.0508067161 1490.889 10.72731686 0.000000e+00

33 281.4851 1.425480e-02 1.632738e+00 1.074257e+02 2.642886e-04 0.0443061776 1490.411 7.85862303 0.000000e+00

34 281.4847 5.077021e-03 1.198626e-01 6.500598e+01 2.420579e-04 0.0355031826 1490.126 8.47933197 0.000000e+00

35 281.4843 3.267491e-03 4.253902e-07 4.515396e+01 2.277506e-04 0.0418994129 1489.929 11.26896095 0.000000e+00

36 281.4840 2.416096e-03 1.063476e-07 3.415008e+01 2.171713e-04 0.0478243791 1489.780 10.74963188 0.000000e+00

37 281.4836 1.964410e-03 -2.126951e-07 3.035158e+01 2.085697e-04 0.0478062816 1489.647 10.92788124 0.000000e+00

38 281.4832 2.373467e-03 1.063476e-07 3.955339e+01 1.981771e-04 0.0477256328 1489.473 9.67742729 0.000000e+00

39 281.4829 4.142797e-03 5.697514e-01 7.614142e+01 1.800371e-04 0.0479587317 1489.137 9.33772945 0.000000e+00

40 281.4825 4.201090e-03 1.783185e+00 9.834850e+01 1.616419e-04 0.0431919657 1488.698 6.98183393 0.000000e+00

41 281.4821 1.254007e+01 1.272381e+00 8.477446e+01 1.506305e-02 0.0337780304 1488.775 5.38706684 4.877778e-05

42 281.4818 8.882695e+00 1.450910e-02 3.985715e+01 4.047176e-02 0.0180899035 1492.883 2.89224458 4.383334e-04

43 281.4814 1.904378e+00 2.658689e-08 6.530567e+00 7.904607e-02 0.0045455541 1495.376 1.93924856 2.554445e-04

44 281.4810 1.581159e+00 4.785234e-03 2.439618e+00 1.043267e-01 0.0035735369 1497.350 1.56291914 1.978889e-04

45 281.4807 4.731468e+00 1.578597e-08 3.569982e+00 1.071822e-01 0.0097961323 1498.337 3.23861957 1.002222e-04

46 281.4803 1.017009e+01 -2.658689e-08 7.079746e+00 9.085794e-02 0.0196009856 1499.263 4.19180298 9.766664e-05

47 281.4799 2.233161e+01 0.000000e+00 2.310044e+01 4.064545e-02 0.0258304272 1499.497 4.19369125 4.188890e-05

48 281.4796 1.430080e+01 7.444330e-07 2.707919e+01 3.665061e-02 0.0248530488 1500.932 3.68908095 1.578889e-04

49 281.4792 7.742348e+00 2.598692e-02 2.823262e+01 1.246327e-02 0.0249034893 1500.785 4.29290581 1.000000e-06

50 281.4785 3.346037e+00 1.595213e-07 5.795738e+00 3.969020e-02 0.0154011669 1500.848 1.82753313 0.000000e+00

51 281.4781 2.028159e+00 1.595003e-02 4.315681e+00 3.080955e-02 0.0208644196 1500.820 6.27057838 0.000000e+00

52 281.4778 4.750473e+00 4.652706e-08 4.358221e+00 6.293384e-02 0.0362932757 1500.909 9.16110611 1.222222e-05

53 281.4774 1.350778e+01 1.063476e-07 1.068062e+01 5.283173e-02 0.0415218137 1501.056 8.05457306 2.422222e-05

54 281.4767 4.054769e+00 4.253902e-07 4.487761e+01 9.444187e-03 0.0457770117 1500.676 8.63711834 2.111112e-06

55 281.4764 1.426244e+00 2.126951e-07 3.680599e+01 3.199128e-03 0.0419560187 1500.508 7.81503057 0.000000e+00

56 281.4760 1.376794e-01 2.924558e-07 1.661989e+01 2.596275e-03 0.0300364699 1500.435 4.41070127 0.000000e+00

57 281.4756 6.270331e-03 1.010495e-02 1.451697e+00 2.568819e-03 0.0184763540 1500.429 5.20409775 0.000000e+00

58 281.4753 2.452194e-04 9.445389e-02 1.562263e-01 2.567745e-03 0.0141170844 1500.428 3.03128624 0.000000e+00

59 281.4749 -3.074805e-03 5.074811e-02 9.927487e-02 2.581209e-03 0.0125518674 1500.427 4.93364191 0.000000e+00

60 281.4746 1.141769e-01 1.063476e-07 2.343607e+01 2.081265e-03 0.0242906976 1500.323 3.28069949 0.000000e+00

61 281.4742 2.094321e-01 3.261389e+00 7.314363e+01 1.164231e-03 0.0238191094 1499.988 0.95431769 0.000000e+00

62 281.4739 1.066957e-01 8.451643e+00 9.512854e+01 6.970452e-04 0.0229789764 1499.534 1.30444872 0.000000e+00

63 281.4735 1.308981e+01 3.691927e+00 7.887788e+01 1.702972e-02 0.0200930797 1499.902 1.92778671 7.600000e-05

64 281.4732 8.302159e+00 4.252822e-02 3.174100e+01 4.654122e-02 0.0119054867 1500.341 3.96869397 5.933332e-05

65 281.4728 7.720174e+00 6.380853e-07 2.488379e+01 1.273709e-02 0.0192855466 1500.198 6.31771898 0.000000e+00

66 281.4725 2.008495e+00 2.126951e-07 2.531221e+01 8.473033e-03 0.0241935756 1500.083 5.63939524 4.444445e-07

67 281.4721 7.169497e-01 0.000000e+00 1.930108e+01 5.333743e-03 0.0243657306 1499.995 5.56978846 0.000000e+00

68 281.4718 2.410621e+00 -3.190427e-07 1.846666e+01 1.387973e-02 0.0301399827 1499.924 6.77105331 1.888889e-06

69 281.4714 2.602078e+00 4.166584e-01 5.880347e+01 2.486080e-03 0.0398528501 1499.653 7.69195127 0.000000e+00

70 281.4710 3.197825e+00 3.616892e-01 5.787717e+01 8.141346e-03 0.0403087325 1499.405 7.86509514 1.888889e-06

71 281.4707 1.257417e+01 5.757593e-02 4.249075e+01 1.820070e-02 0.0407667570 1499.234 8.89881134 6.555556e-06

72 281.4703 1.165692e+01 4.532002e-04 2.603326e+01 3.716999e-02 0.0353401303 1499.399 6.78378153 3.166666e-05

73 281.4700 5.546495e+00 1.196410e-07 1.000944e+01 6.982490e-02 0.0210968163 1502.909 4.40662622 3.596666e-04

74 281.4697 3.698926e+00 6.646722e-08 4.598779e+00 9.514806e-02 0.0188110750 1509.559 5.80771780 7.345557e-04

75 281.4693 7.488018e+00 3.988033e-08 6.211229e+00 9.549357e-02 0.0195200872 1509.569 3.95373297 6.777777e-06

76 281.4690 1.306366e+01 2.658689e-07 1.061557e+01 7.823543e-02 0.0193825308 1510.360 4.18824530 8.699999e-05

77 281.4686 1.336328e+01 5.317378e-08 1.183942e+01 6.752959e-02 0.0245716516 1510.392 5.47450447 1.366666e-05

78 281.4683 1.099656e+01 0.000000e+00 9.798024e+00 6.908591e-02 0.0272561964 1510.574 5.28178120 2.633333e-05

79 281.4680 8.067969e+00 -5.317378e-08 9.531470e+00 3.461040e-02 0.0302481893 1510.499 6.93417072 1.111111e-07

80 281.4676 3.823217e+00 -2.658689e-08 9.378412e+00 1.786978e-02 0.0306032170 1510.441 5.78152084 0.000000e+00

81 281.4673 1.377649e+00 7.976067e-08 8.429396e+00 1.183750e-02 0.0232781786 1510.398 3.72548819 0.000000e+00

82 281.4669 1.181599e+00 1.063476e-07 8.126204e+00 1.550317e-02 0.0222366918 1510.367 5.01431942 8.888890e-07

83 281.4666 9.067078e-01 1.329344e-07 6.861712e+00 1.153300e-02 0.0218952838 1510.333 3.86758924 0.000000e+00

84 281.4663 8.254088e-01 -2.658689e-08 1.236850e+01 7.918804e-03 0.0202013161 1510.275 3.34112000 0.000000e+00

85 281.4659 1.227605e+01 1.650914e-01 3.646839e+01 2.711384e-02 0.0214344487 1511.103 2.01336908 1.013333e-04

86 281.4656 1.842335e+01 8.012252e-01 6.453429e+01 2.031411e-02 0.0224439483 1514.718 3.08178377 4.034444e-04

87 281.4653 1.456228e+01 2.046296e-01 4.718508e+01 2.921388e-02 0.0231765267 1515.131 4.15426016 6.700001e-05

88 281.4649 9.577620e+00 5.317378e-08 2.081357e+01 5.324532e-02 0.0204788204 1516.448 3.91343641 1.420000e-04

89 281.4646 5.936784e+00 2.658689e-08 8.961104e+00 8.010398e-02 0.0153696882 1519.618 2.73781681 3.262222e-04

90 281.4642 4.735171e+00 0.000000e+00 5.349138e+00 1.004268e-01 0.0138318688 1523.747 3.80528188 4.315556e-04

91 281.4639 8.759730e+00 0.000000e+00 6.822122e+00 9.909651e-02 0.0194754023 1525.013 4.33924818 1.322222e-04

92 281.4636 1.150673e+01 0.000000e+00 8.878074e+00 8.910270e-02 0.0205876231 1526.002 3.47118950 1.056667e-04

93 281.4632 1.352460e+01 0.000000e+00 1.109081e+01 7.602485e-02 0.0226730276 1526.449 4.21464300 5.388889e-05

94 281.4629 1.681444e+01 0.000000e+00 1.636004e+01 5.736439e-02 0.0263589378 1526.462 4.41156054 1.511111e-05

95 281.4626 8.482949e+00 0.000000e+00 1.608807e+01 2.022032e-02 0.0246312562 1526.354 3.68972659 0.000000e+00

96 281.4622 1.406523e+00 0.000000e+00 7.471331e+00 1.406162e-02 0.0181900170 1526.316 3.13694978 0.000000e+00

97 281.4619 2.542193e+00 0.000000e+00 5.058289e+00 6.838241e-02 0.0178596359 1526.380 3.32386684 9.222219e-06

98 281.4615 2.108904e+00 0.000000e+00 2.672676e+00 1.049144e-01 0.0187185723 1526.845 4.52643633 4.711111e-05

99 281.4612 2.520661e+00 6.397886e-03 1.851623e+00 1.232143e-01 0.0180752110 1527.595 3.27406836 7.500000e-05

100 281.4609 1.792294e+01 0.000000e+00 1.016955e+01 8.074477e-02 0.0254133809 1528.177 5.68172169 6.877779e-05

101 281.4605 1.935054e+01 1.088265e-02 2.921063e+01 1.641173e-02 0.0318267308 1527.990 5.02377558 2.444445e-06

102 281.4602 3.634695e+00 1.521890e-01 4.559650e+01 6.218315e-03 0.0343038850 1527.780 6.18829823 5.555557e-07

103 281.4598 8.082177e-01 3.985496e-01 5.176285e+01 2.679394e-03 0.0333847888 1527.548 5.21042871 0.000000e+00

104 281.4595 6.617041e-02 3.096883e-02 1.537050e+01 2.389655e-03 0.0142934239 1527.481 2.92711711 0.000000e+00

105 281.4592 -8.622389e-04 8.966482e-02 1.855028e-01 2.393431e-03 0.0076109953 1527.480 3.71743178 0.000000e+00

106 281.4589 -1.776117e-03 5.616254e-02 6.205760e-02 2.401208e-03 0.0094334790 1527.479 3.79803252 0.000000e+00

107 281.4585 -3.388648e-02 4.916091e-03 5.235982e-02 2.549586e-03 0.0119158654 1527.479 4.81118774 0.000000e+00

108 281.4582 1.427468e-01 5.733680e-01 3.842326e+01 1.924544e-03 0.0229394138 1527.308 3.34517431 0.000000e+00

109 281.4579 2.334981e-01 9.194097e+00 1.436744e+02 9.021314e-04 0.0279322509 1526.637 3.94301414 0.000000e+00

110 281.4576 8.929432e-02 1.771297e+01 1.969491e+02 5.111406e-04 0.0284377206 1525.697 3.59934640 0.000000e+00

111 281.4572 1.565740e+01 9.084649e+00 1.418653e+02 1.541302e-02 0.0249926690 1525.214 3.66351724 2.366666e-05

112 281.4569 9.804978e+00 6.325907e-01 4.338834e+01 4.833333e-02 0.0126817217 1525.135 3.99958205 1.488889e-05

113 281.4566 6.334527e+00 5.317378e-08 1.972417e+01 2.059650e-02 0.0148490593 1525.021 5.60096645 0.000000e+00

114 281.4563 1.762851e+00 -1.595213e-07 1.306607e+01 1.287755e-02 0.0137231154 1524.956 3.37973428 0.000000e+00

115 281.4560 6.582797e-02 7.391717e-03 1.497827e+00 1.258931e-02 0.0031041831 1524.949 1.30379593 0.000000e+00

116 281.4557 1.812233e+00 7.281449e-01 4.095989e+01 4.654133e-03 0.0180855934 1524.758 4.88871813 0.000000e+00

117 281.4553 8.044642e-01 7.481408e+00 1.410655e+02 1.131647e-03 0.0363012441 1524.104 7.28947639 0.000000e+00

118 281.4550 1.076184e-01 6.050001e+00 1.305185e+02 6.604208e-04 0.0392460935 1523.505 6.54196072 0.000000e+00

119 281.4547 1.742935e-02 5.176383e-01 4.967787e+01 5.841035e-04 0.0322917216 1523.286 5.83946037 0.000000e+00

120 281.4543 1.044652e+00 1.313903e-02 1.980828e+01 1.440270e-02 0.0255031381 1523.214 4.44310904 1.777778e-06

121 281.4540 6.994379e+00 6.380853e-07 1.358552e+01 5.692125e-02 0.0219588820 1523.785 4.92268038 6.411109e-05

122 281.4537 4.261833e+00 7.976067e-08 5.122750e+00 9.384011e-02 0.0169788972 1525.107 4.06368208 1.333333e-04

123 281.4534 2.546134e+00 2.690911e-03 2.541648e+00 8.269142e-02 0.0125613054 1525.084 2.58684230 0.000000e+00

124 281.4531 2.215437e+01 3.645760e-01 2.004364e+01 4.149529e-02 0.0178326461 1525.192 3.15538049 2.833334e-05

125 281.4528 9.800059e+00 7.709844e+00 1.125024e+02 3.167595e-03 0.0273761246 1524.627 3.45114827 4.444445e-07

126 281.4524 1.710868e+01 5.866551e+00 1.197949e+02 1.481931e-02 0.0263920967 1525.434 4.03315926 1.391111e-04

127 281.4521 2.661690e+00 1.936417e+00 7.671003e+01 3.164638e-03 0.0205175746 1525.078 2.71417975 0.000000e+00

128 281.4518 1.477381e-01 5.484673e-01 3.537831e+01 2.517740e-03 0.0123176584 1524.920 3.44988370 0.000000e+00

129 281.4515 2.094750e-02 1.462279e-06 1.075814e+01 2.426018e-03 0.0068767951 1524.873 2.54028392 0.000000e+00

130 281.4511 6.906043e-03 2.658689e-08 4.689982e+00 2.395778e-03 0.0041715777 1524.852 2.40219164 0.000000e+00

131 281.4508 5.797434e-04 1.544224e-02 8.646377e-01 2.393240e-03 0.0031057980 1524.849 2.55670738 0.000000e+00

132 281.4505 1.497300e-01 1.521863e+00 4.787947e+01 1.737621e-03 0.0205259006 1524.631 3.84249926 0.000000e+00

133 281.4502 2.126963e-01 1.241009e+01 1.523268e+02 8.062935e-04 0.0319852717 1523.909 5.22505951 0.000000e+00

134 281.4499 8.128170e-02 2.062860e+01 2.030972e+02 4.503875e-04 0.0363440923 1522.929 5.76380920 0.000000e+00

135 281.4496 2.426569e-02 1.251466e+01 1.578761e+02 3.441359e-04 0.0316065811 1522.183 4.54013348 0.000000e+00

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138 281.4486 2.035224e-03 1.116649e-05 3.391375e+01 3.071765e-04 0.0217702705 1521.605 5.55977869 0.000000e+00

139 281.4483 1.437660e-03 1.852574e-04 2.603835e+01 3.008815e-04 0.0209758822 1521.490 6.16665220 0.000000e+00

140 281.4479 5.139391e-03 2.056771e+00 6.969292e+01 2.783778e-04 0.0316987410 1521.176 5.92385960 0.000000e+00

141 281.4476 1.188920e-02 1.358241e+01 1.681591e+02 2.263189e-04 0.0406809077 1520.380 7.62461805 0.000000e+00

142 281.4473 1.092471e-02 2.207105e+01 2.137913e+02 1.784831e-04 0.0452952087 1519.348 7.87244415 0.000000e+00

143 281.4470 5.584154e-03 1.338547e+01 1.691509e+02 1.540319e-04 0.0425843112 1518.548 7.65285301 0.000000e+00

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147 281.4458 1.324128e-04 8.775800e-04 1.498267e+01 1.441278e-04 0.0118478499 1517.888 3.71979666 0.000000e+00

148 281.4455 2.298359e-01 2.215432e+00 6.154556e+01 2.709666e-03 0.0263516679 1517.611 5.47193336 3.333334e-07

149 281.4452 4.256400e-01 1.483038e+01 1.638343e+02 8.459265e-04 0.0380592719 1516.828 6.53346539 0.000000e+00

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157 281.4428 4.962337e-02 1.684818e+01 1.662607e+02 4.252256e-04 0.0364785679 1513.657 7.08351183 0.000000e+00

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162 281.4413 7.591930e-04 3.711530e-05 2.531310e+01 2.306570e-04 0.0178021211 1511.513 4.38488913 0.000000e+00

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166 281.4400 2.322377e+01 1.969236e+01 1.902596e+02 1.066236e-02 0.0363230594 1510.738 6.45186567 7.444445e-05

167 281.4397 2.033756e+01 5.541559e+00 1.385379e+02 1.974796e-02 0.0296684820 1514.430 4.06994581 4.432221e-04

168 281.4394 1.205081e+01 6.277776e-01 4.440736e+01 5.728626e-02 0.0137103014 1518.607 1.83015752 4.606666e-04

169 281.4391 1.809717e+01 1.260218e-04 2.338521e+01 5.577545e-02 0.0166604631 1518.958 5.70480776 5.200000e-05

170 281.4388 1.814110e+01 7.832498e-05 1.947858e+01 5.771262e-02 0.0287641119 1519.039 7.76971722 2.355556e-05

171 281.4385 2.098225e+01 2.305828e-03 1.775108e+01 4.742285e-02 0.0409898274 1519.428 9.76094055 5.377778e-05

172 281.4382 2.740986e+01 9.849851e-01 3.663777e+01 1.768558e-02 0.0462832488 1519.711 8.22204590 5.466666e-05

173 281.4380 2.380465e+01 6.764078e+00 1.108034e+02 1.432668e-02 0.0436223187 1519.922 6.65275240 8.000002e-05

174 281.4377 2.373959e+01 2.116213e+01 1.737279e+02 1.234354e-02 0.0312657841 1519.511 2.63341737 5.255557e-05

175 281.4374 2.713578e+00 1.572596e+01 1.115987e+02 2.818827e-03 0.0220687855 1518.944 5.42954254 2.222223e-07

176 281.4371 1.793370e+01 3.540663e-01 5.178017e+01 2.443705e-02 0.0319004916 1518.872 7.63256407 2.233334e-05

177 281.4368 1.914600e+01 1.532468e-04 3.528877e+01 3.693056e-02 0.0341914333 1518.751 6.02353621 1.100000e-05

178 281.4365 1.327207e+01 6.989693e-05 1.789958e+01 6.547660e-02 0.0237524267 1518.751 4.14067841 1.277778e-05

179 281.4362 1.738764e+01 1.639294e-02 1.988151e+01 4.587019e-02 0.0205793381 1518.661 4.11187220 6.888890e-06

180 281.4359 2.809552e+01 1.383927e+00 5.743738e+01 1.823917e-02 0.0265730452 1518.827 4.52747440 5.244445e-05

181 281.4357 3.824084e+00 1.385803e+01 1.401233e+02 1.494753e-03 0.0302569419 1518.136 2.58785629 0.000000e+00

182 281.4354 1.800725e-01 2.835293e+01 1.624402e+02 7.062737e-04 0.0265944004 1517.300 1.71732676 0.000000e+00

183 281.4351 4.489945e-02 1.858991e+01 1.356278e+02 5.096736e-04 0.0238606036 1516.624 3.68794012 0.000000e+00

184 281.4348 1.079169e-02 1.964213e+00 7.290752e+01 4.624204e-04 0.0205154326 1516.296 5.44114447 0.000000e+00

185 281.4345 6.474273e-03 1.495247e-04 4.993216e+01 4.340716e-04 0.0251877904 1516.078 6.84746552 0.000000e+00

186 281.4342 6.360069e-03 1.536722e-04 4.441113e+01 4.062230e-04 0.0339954533 1515.884 6.71834898 0.000000e+00

187 281.4339 8.744145e+00 3.022025e-03 1.638239e+01 5.774289e-02 0.0364587568 1516.309 7.96383381 5.133333e-05

188 281.4337 2.445342e+01 4.317733e-01 2.598360e+01 3.810532e-02 0.0361475609 1518.227 7.41691494 2.100000e-04

189 281.4333 2.904964e+01 6.297028e+00 9.722498e+01 1.488651e-02 0.0415047556 1518.380 7.44918489 7.088889e-05

190 281.4331 2.415828e+01 7.486847e+00 1.617237e+02 1.506040e-02 0.0508734249 1524.795 10.72373867 7.761113e-04

191 281.4328 5.785250e+00 3.468375e+00 9.022470e+01 6.063652e-03 0.0679422915 1524.376 15.06424046 1.555556e-06

192 281.4325 2.966856e+00 6.551845e-01 4.543435e+01 9.369577e-03 0.0644445121 1524.178 10.75382996 1.555556e-06

193 281.4322 2.051201e+01 1.282552e-04 4.071899e+01 2.327906e-02 0.0469271131 1524.421 7.81201887 4.922222e-05

194 281.4319 2.352292e+01 1.297440e-05 5.069284e+01 2.351877e-02 0.0372376628 1524.708 8.39341736 5.899999e-05

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197 281.4311 2.430403e+00 1.045534e+01 1.514885e+02 2.153775e-03 0.0525763370 1523.453 8.47792244 3.333334e-07

198 281.4308 3.279930e-01 2.004585e+01 1.894779e+02 7.176007e-04 0.0450029932 1522.534 5.62415886 0.000000e+00

199 281.4305 3.934459e-02 6.999266e+00 1.199820e+02 5.453237e-04 0.0306619499 1521.977 4.44247818 0.000000e+00

200 281.4303 8.041021e-03 1.176291e+00 5.098619e+01 5.101146e-04 0.0162375700 1521.749 2.67101145 0.000000e+00

201 281.4300 5.570159e-04 5.822529e-06 1.045803e+01 5.076756e-04 0.0030359440 1521.703 1.65239286 0.000000e+00

202 281.4297 2.631704e-04 1.196410e-07 5.806107e+00 5.065233e-04 0.0018207808 1521.678 1.44203949 0.000000e+00

203 281.4295 4.208087e-04 9.147751e-04 8.485916e+00 5.046807e-04 0.0026875145 1521.640 2.10939407 0.000000e+00

204 281.4292 1.069198e-02 3.239724e+00 6.657952e+01 4.578639e-04 0.0216792468 1521.335 4.05625868 0.000000e+00

205 281.4289 2.443153e-02 1.808694e+01 1.628826e+02 3.508863e-04 0.0354845002 1520.542 5.83680677 0.000000e+00

206 281.4286 2.035048e-02 2.976421e+01 2.102376e+02 2.617781e-04 0.0408383012 1519.491 6.38135815 0.000000e+00

207 281.4284 3.314894e+00 1.897313e+01 1.696358e+02 5.832427e-03 0.0397157334 1518.672 6.86096668 1.888889e-06

208 281.4281 2.361285e+00 2.509257e+00 7.392605e+01 9.508369e-03 0.0280828532 1518.341 5.53489828 1.333334e-06

209 281.4279 5.517702e+00 2.370487e-04 3.722523e+01 1.702141e-02 0.0256407615 1518.187 6.84674263 3.111112e-06

210 281.4276 3.993568e+00 1.861082e-04 3.417605e+01 1.095295e-02 0.0309204925 1518.032 7.05964375 1.111111e-06

211 281.4273 8.402764e+00 2.220947e-02 1.877228e+01 5.598175e-02 0.0228460860 1518.008 4.42705965 8.777776e-06

212 281.4270 2.368758e+01 3.441548e+00 6.274290e+01 1.183227e-02 0.0355049782 1517.680 8.36042023 6.111111e-06

213 281.4268 1.242093e+01 1.768094e+01 1.613099e+02 6.629801e-03 0.0535671450 1516.892 10.22102833 4.666668e-06

214 281.4265 9.157524e+00 2.159442e+01 1.818112e+02 6.557326e-03 0.0550697707 1516.003 9.38889122 3.777778e-06

215 281.4262 1.526477e+00 7.937597e+00 1.267851e+02 2.247109e-03 0.0467187762 1515.408 8.34992886 2.222223e-07

216 281.4260 2.264800e-01 1.074120e+00 8.784308e+01 1.255427e-03 0.0395529754 1515.018 8.24759865 0.000000e+00

217 281.4257 5.908360e-02 6.833894e-04 5.964296e+01 9.967185e-04 0.0341311023 1514.756 7.09622288 0.000000e+00

218 281.4254 2.310126e-02 3.313790e-04 3.349405e+01 8.955656e-04 0.0346995965 1514.609 7.77066755 0.000000e+00

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220 281.4249 6.203808e+00 5.415812e+00 7.879403e+01 7.567079e-03 0.0582017787 1514.147 9.82829857 3.222223e-06

221 281.4247 2.647524e+01 2.752143e+01 1.926847e+02 9.376790e-03 0.0550151467 1513.304 9.49244785 2.244444e-05

222 281.4244 2.717846e+01 4.887419e+01 2.723922e+02 8.954586e-03 0.0509924106 1512.129 8.24432564 3.333333e-05

223 281.4241 1.885516e+00 3.757668e+01 2.275839e+02 6.985259e-04 0.0426840447 1510.959 7.12263680 0.000000e+00

224 281.4239 3.760899e-02 6.112337e+00 1.155147e+02 5.338484e-04 0.0335465297 1510.427 7.69618702 0.000000e+00

225 281.4236 1.486151e-02 9.892449e-04 7.155265e+01 4.687747e-04 0.0357906781 1510.113 8.30820942 0.000000e+00

226 281.4234 9.868770e-03 6.991288e-04 5.749721e+01 4.255626e-04 0.0383749492 1509.861 8.21746349 0.000000e+00

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228 281.4229 1.322268e-02 7.833590e+00 1.017625e+02 3.367929e-04 0.0419222154 1509.165 7.20010948 0.000000e+00

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230 281.4224 5.662290e-03 4.761889e+00 8.985818e+01 2.548209e-04 0.0337579064 1508.020 6.48858261 0.000000e+00

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232 281.4219 2.314335e+01 1.312231e-01 3.778596e+01 3.584000e-02 0.0416090749 1510.226 7.90329552 9.366668e-05

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235 281.4211 1.652341e+01 2.353471e-03 2.627979e+01 2.333740e-02 0.0302953776 1509.905 6.01758003 5.333335e-06

236 281.4208 2.215898e+01 1.548429e+00 6.355025e+01 1.517220e-02 0.0383072756 1509.617 6.87370491 8.777776e-06

237 281.4206 2.769237e+01 1.053646e+01 1.502722e+02 1.440001e-02 0.0383844078 1511.375 3.77386737 2.513333e-04

238 281.4203 2.750733e+01 2.197573e+01 1.933343e+02 1.486407e-02 0.0298223253 1515.733 1.99980378 5.602223e-04

239 281.4201 1.453714e+01 1.729149e+01 1.325542e+02 1.368557e-02 0.0247164834 1515.078 2.78624606 6.000002e-06

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243 281.4192 4.944920e-01 9.072616e-03 1.658832e+01 8.276283e-03 0.0099687539 1514.495 2.77361703 0.000000e+00

244 281.4189 1.183269e+00 2.210280e+00 5.092836e+01 4.267307e-03 0.0210255627 1514.258 3.19608665 1.111111e-07

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250 281.4175 1.073382e+00 4.092387e-05 7.505413e+00 2.380962e-02 0.0025665562 1512.512 0.09196082 0.000000e+00

251 281.4173 1.222042e+00 1.209392e-02 8.185502e+00 1.845870e-02 0.0063943178 1512.470 4.05040073 0.000000e+00

252 281.4170 3.354069e+00 2.084225e+00 5.550455e+01 3.772317e-03 0.0349506773 1512.203 7.56640720 0.000000e+00

253 281.4168 1.123103e+00 1.183308e+01 1.272864e+02 2.417965e-03 0.0481292456 1511.593 7.32947016 3.333334e-07

254 281.4166 4.786829e+00 9.868989e+00 1.226337e+02 7.333699e-03 0.0429557301 1511.018 5.88171768 2.444445e-06

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256 281.4161 1.833108e+01 9.354599e-01 4.554759e+01 5.829717e-02 0.0196988285 1510.810 1.74176192 1.955556e-05

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258 281.4156 3.955382e+00 1.329344e-08 5.865967e+00 9.076791e-02 0.0030586317 1510.794 1.18842363 2.555556e-06

259 281.4154 8.166373e-01 1.994017e-07 1.769853e+00 8.719213e-02 0.0011921307 1510.783 0.90697235 0.000000e+00

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261 281.4150 2.755434e+01 1.848982e+01 1.185117e+02 1.493387e-02 0.0281736907 1510.018 2.36446166 2.177778e-05

262 281.4147 2.629531e+01 2.996786e+01 1.289286e+02 1.458220e-02 0.0269583911 1509.326 1.21383250 1.100000e-05

263 281.4145 2.714816e+01 1.439283e+01 9.276696e+01 2.192834e-02 0.0214308482 1509.137 2.27918577 3.800000e-05

264 281.4143 1.808876e+01 1.890442e+00 4.705777e+01 6.191861e-02 0.0125823421 1509.295 3.18618774 4.311111e-05

265 281.4141 1.261499e+01 1.043270e-04 2.487350e+01 3.870193e-02 0.0107051991 1509.169 3.89387035 3.555556e-06

266 281.4139 1.108960e+01 4.977065e-05 2.103441e+01 5.382347e-02 0.0127974041 1509.104 4.28477383 6.999999e-06

267 281.4136 1.757570e+01 2.367461e-02 1.749815e+01 7.901978e-02 0.0159849133 1509.503 4.65995932 5.288888e-05

268 281.4134 3.893176e+01 1.381411e+00 4.550801e+01 2.350319e-02 0.0292013511 1509.714 5.91430187 5.622221e-05

269 281.4132 3.182576e+01 1.327901e+01 1.517303e+02 1.402218e-02 0.0422171466 1510.886 6.99824667 1.972223e-04

270 281.4130 2.921276e+01 2.068854e+01 1.733996e+02 1.648214e-02 0.0358109623 1511.460 3.54455352 1.501111e-04

271 281.4128 2.797075e+01 7.568384e+00 8.821301e+01 2.109104e-02 0.0247609671 1511.337 6.41804314 3.988889e-05

272 281.4125 6.897257e+00 1.507034e+00 4.557054e+01 2.051044e-02 0.0243334845 1511.131 3.69192696 2.888890e-06

273 281.4123 9.335919e-01 7.327348e-05 9.068984e+00 1.642255e-02 0.0082907295 1511.087 2.25946140 0.000000e+00

274 281.4121 4.877457e-01 3.981386e-05 7.749941e+00 1.428687e-02 0.0068832547 1511.052 3.66549015 0.000000e+00

275 281.4119 9.284354e-01 2.439347e-02 1.738655e+01 1.022155e-02 0.0126251774 1510.971 4.19502020 0.000000e+00

276 281.4117 2.694455e+01 3.941833e+00 8.250378e+01 2.040949e-02 0.0244180206 1513.618 4.02744484 3.103334e-04

277 281.4115 2.304543e+01 2.260513e+01 1.733343e+02 1.122002e-02 0.0328981467 1512.754 4.93181276 8.777774e-06

278 281.4113 2.975062e+01 3.389218e+01 1.901676e+02 1.454238e-02 0.0332041904 1512.053 3.26198196 3.911112e-05

279 281.4111 2.923767e+00 1.751898e+01 1.383094e+02 1.740155e-03 0.0279197488 1511.358 4.23234844 0.000000e+00

280 281.4109 1.546665e+01 1.048665e+00 5.916167e+01 5.879508e-02 0.0134070329 1514.410 3.09679127 3.348888e-04

281 281.4107 2.466532e+01 2.320504e-04 3.354977e+01 6.260890e-02 0.0133103589 1514.358 4.22851562 1.922221e-05

282 281.4105 2.107815e+01 1.543635e-04 2.350976e+01 7.925501e-02 0.0143820457 1514.643 3.05683136 4.600000e-05

283 281.4103 8.304660e+00 7.884555e-03 8.423687e+00 1.335564e-01 0.0060453811 1514.930 0.78535879 3.444445e-05

284 281.4101 4.982367e+01 2.700413e+00 4.375855e+01 2.337260e-02 0.0203750189 1516.177 4.46183538 1.623333e-04

285 281.4099 3.298127e+01 2.110844e+01 1.615101e+02 1.381619e-02 0.0373272672 1515.971 5.48812962 7.099998e-05

286 281.4097 3.149657e+01 3.248175e+01 2.031673e+02 1.239700e-02 0.0449782126 1514.962 7.74022913 1.500000e-05

287 281.4095 2.580610e+00 1.952023e+01 1.714750e+02 1.097353e-03 0.0482613929 1514.114 8.36092281 0.000000e+00

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290 281.4088 1.186914e-01 9.390488e-05 2.418874e+01 4.749762e-03 0.0157193877 1513.500 5.30702496 3.333334e-07

291 281.4087 6.302725e+00 4.039761e-02 3.229008e+01 1.818603e-02 0.0314349048 1513.374 8.40252399 4.000001e-06

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293 281.4083 2.830837e+00 2.271150e+01 1.620644e+02 3.124259e-03 0.0432102196 1512.191 5.79196692 6.666668e-07

294 281.4081 1.646616e+00 3.922206e+01 1.987216e+02 3.048734e-03 0.0386339910 1511.149 4.26710987 6.666668e-07

295 281.4079 2.716057e+01 1.629275e+01 1.455200e+02 2.101558e-02 0.0294158533 1511.815 4.04851961 1.438889e-04

296 281.4077 1.530396e+01 9.022031e-01 4.226152e+01 7.789268e-02 0.0089996653 1512.189 1.28823817 6.044446e-05

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302 281.4066 2.758425e+01 1.372508e+00 5.204338e+01 3.545439e-02 0.0251540672 1512.767 4.00426435 8.377779e-05

303 281.4064 7.746873e+00 1.742443e-01 2.125912e+01 2.789441e-02 0.0158721842 1512.668 1.72027636 2.666667e-06

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316 281.4041 4.660785e+01 2.480152e+00 4.647147e+01 2.468296e-02 0.0268807262 1513.098 3.35597777 4.644446e-05

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325 281.4026 4.371098e+01 3.983304e+00 3.524113e+01 3.279249e-02 0.0207587723 1516.255 1.40945041 2.808888e-04

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327 281.4022 3.036254e+01 1.607209e+01 1.097285e+02 2.820761e-02 0.0229680073 1521.962 1.85376132 1.738889e-04

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342 281.4000 3.477278e+01 2.285339e+00 5.701959e+01 2.899434e-02 0.0395973846 1538.158 5.71070290 1.455555e-05

343 281.3998 5.700799e+00 3.128270e+00 6.896261e+01 4.032400e-03 0.0374372676 1537.817 5.44284391 0.000000e+00

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346 281.3994 1.486632e+01 7.736784e-05 1.385513e+01 9.787878e-02 0.0156445112 1538.379 3.17612433 8.577781e-05

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354 281.3983 1.852133e+01 7.090723e-05 1.077680e+01 1.431839e-01 0.0077343448 1549.001 2.11268783 1.623333e-04

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367 281.3966 2.112360e-02 3.323571e+01 1.032770e+02 4.330456e-04 0.0244630501 1544.815 0.88136595 0.000000e+00

368 281.3965 4.415502e-03 4.421342e+00 4.724593e+01 4.137116e-04 0.0140773989 1544.588 2.91245866 0.000000e+00

369 281.3964 7.202512e-04 1.149085e-04 1.771365e+01 4.105579e-04 0.0088433893 1544.511 2.99293423 0.000000e+00

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395 281.3936 1.556155e-05 7.746675e-03 7.806389e+00 7.835069e-05 0.0117517626 1531.441 2.07508111 0.000000e+00

396 281.3935 1.769322e-04 6.405323e+00 3.904894e+01 7.757596e-05 0.0194549114 1531.242 1.44004774 0.000000e+00

397 281.3934 5.867833e-04 4.330415e+01 8.998788e+01 7.500663e-05 0.0259014945 1530.659 0.79133898 0.000000e+00

398 281.3933 7.540543e-04 6.327101e+01 1.451944e+02 7.170488e-05 0.0285427775 1529.746 2.75089622 0.000000e+00

399 281.3932 2.072283e+01 3.294529e+01 1.483141e+02 1.780078e-02 0.0305489805 1528.973 4.30762434 1.033333e-05

400 281.3931 2.269469e+01 4.187006e+00 6.683059e+01 3.845721e-02 0.0222875085 1528.691 3.92790031 1.188889e-05

401 281.3930 1.319884e+01 2.700164e-04 2.341030e+01 3.491947e-02 0.0195504334 1528.590 5.33228207 5.555556e-06

402 281.3929 1.388727e+01 1.069591e-04 1.277359e+01 1.107377e-01 0.0203603171 1530.220 3.99126983 1.696667e-04

403 281.3929 3.911028e+00 3.978015e-03 2.195308e+00 1.923821e-01 0.0094609642 1533.334 2.15883183 3.154445e-04

404 281.3928 6.646323e+01 5.119368e+00 3.289693e+01 2.868631e-02 0.0183037110 1534.058 2.53285861 1.155555e-04

405 281.3927 1.391268e+01 3.613028e+01 1.361134e+02 8.642031e-03 0.0287867691 1533.284 2.65292478 3.888890e-06

406 281.3926 3.638491e+01 6.567662e+01 2.109002e+02 1.581316e-02 0.0305580925 1532.929 3.30485797 9.766664e-05

407 281.3925 3.511433e+01 4.563223e+01 1.637835e+02 2.663691e-02 0.0224638954 1532.827 1.47084963 9.311110e-05

408 281.3925 2.584052e+01 5.252602e+00 4.205437e+01 6.649300e-02 0.0098971156 1533.227 0.47560358 6.911111e-05

409 281.3924 1.083556e+01 3.175006e-04 8.993260e+00 1.415263e-01 0.0049520857 1533.492 1.51919127 3.355556e-05

410 281.3923 7.637576e+00 5.785307e-05 3.082871e+00 1.972025e-01 0.0073787235 1533.787 4.11324310 3.277778e-05

411 281.3922 1.972806e+01 1.562793e-02 4.094248e+00 1.900267e-01 0.0173734184 1534.755 3.99538279 1.040000e-04

412 281.3921 6.457807e+01 3.321189e+00 3.318683e+01 3.347659e-02 0.0228395443 1535.196 2.71123123 8.544443e-05

413 281.3920 2.522213e+01 4.315112e+01 1.262117e+02 1.247283e-02 0.0281315055 1534.436 1.74401367 8.555555e-06

414 281.3919 7.366112e+00 7.445396e+01 1.794724e+02 6.216806e-03 0.0291090067 1533.318 2.30678344 2.444445e-06

415 281.3918 3.380132e+01 4.765767e+01 1.394364e+02 2.428219e-02 0.0230983254 1533.664 2.48348641 1.265556e-04

416 281.3918 2.918991e+01 5.806910e+00 7.919749e+01 5.458736e-02 0.0152013423 1535.958 4.70522785 2.754444e-04

417 281.3917 3.302220e+01 5.070651e-04 3.585759e+01 5.813140e-02 0.0224396233 1535.919 6.28541946 2.488890e-05

418 281.3917 2.608594e+01 2.912859e-04 2.061768e+01 8.518942e-02 0.0233383197 1535.976 5.95843744 2.466666e-05

419 281.3916 1.702757e+01 5.698482e-02 1.259536e+01 1.356639e-01 0.0122958608 1536.303 1.52618790 4.377776e-05

420 281.3915 5.987747e+01 9.986060e+00 5.406567e+01 2.324346e-02 0.0188492686 1536.141 3.87141967 3.633333e-05

421 281.3914 2.381169e+01 4.349874e+01 1.598998e+02 1.230025e-02 0.0315533914 1535.242 2.63294244 8.888891e-06

422 281.3914 3.772040e+01 6.728331e+01 1.940779e+02 1.615643e-02 0.0306291375 1534.151 2.78955030 2.044445e-05

423 281.3913 3.701590e+01 4.100681e+01 1.767489e+02 2.177395e-02 0.0274604987 1534.365 3.69199634 1.282222e-04

424 281.3912 3.097668e+01 2.331782e+00 7.317594e+01 4.599121e-02 0.0172431618 1535.263 4.63241243 1.320001e-04

425 281.3912 3.428357e+01 5.017477e-04 3.340391e+01 4.811557e-02 0.0273520779 1535.150 8.42334652 1.711111e-05

426 281.3911 2.695090e+01 2.289663e-04 2.049511e+01 7.763469e-02 0.0299082007 1535.408 4.23495865 4.455556e-05

427 281.3911 1.881907e+01 1.337435e-02 1.003093e+01 1.224181e-01 0.0195362251 1536.065 4.54954433 7.555553e-05

428 281.3910 5.460512e+01 2.056165e+00 4.083791e+01 2.831491e-02 0.0348234661 1536.682 6.62344217 1.010000e-04

429 281.3909 2.449764e+01 1.936835e+01 1.325913e+02 1.278409e-02 0.0432594121 1536.004 5.67247105 8.777776e-06

430 281.3908 3.345080e+00 4.527995e+01 1.824633e+02 2.888300e-03 0.0384445377 1534.997 3.13139462 4.444445e-07

431 281.3908 3.772714e-01 3.504201e+01 1.430873e+02 1.236352e-03 0.0289205611 1534.216 2.59109902 0.000000e+00

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434 281.3906 9.249765e-03 2.486406e-04 2.718052e+01 1.014787e-03 0.0150358705 1533.750 4.42262268 0.000000e+00

435 281.3906 7.896611e-03 5.879477e-02 2.195531e+01 9.802105e-04 0.0184046160 1533.653 4.99526739 0.000000e+00

436 281.3905 4.048625e-02 7.731951e+00 7.982755e+01 8.029343e-04 0.0352059752 1533.270 6.00979662 0.000000e+00

437 281.3904 6.319980e-02 3.643169e+01 1.825078e+02 5.262029e-04 0.0465713181 1532.311 7.59057570 0.000000e+00

438 281.3904 3.867381e-02 5.709735e+01 2.302789e+02 3.568629e-04 0.0495255031 1531.053 6.99781227 0.000000e+00

439 281.3904 1.555030e-02 4.000766e+01 1.877450e+02 2.887733e-04 0.0420048498 1530.055 5.76602221 0.000000e+00

440 281.3903 1.497689e+01 6.146144e+00 8.001398e+01 3.398931e-02 0.0252045840 1529.716 4.78320169 9.666664e-06

441 281.3903 2.600852e+01 6.368091e-04 3.607047e+01 3.721781e-02 0.0241977777 1529.574 6.87673712 1.200000e-05

442 281.3902 2.847688e+01 4.973875e-04 3.166317e+01 6.772727e-02 0.0244305637 1529.706 4.87579679 3.755556e-05

443 281.3901 2.888301e+01 1.513714e-02 2.330851e+01 8.390379e-02 0.0195917357 1530.743 5.23107338 1.223334e-04

444 281.3901 4.226181e+01 2.815896e+00 3.554998e+01 4.752342e-02 0.0182763860 1531.847 1.92517161 1.415555e-04

445 281.3900 4.605183e+01 4.119285e+01 1.597914e+02 1.653588e-02 0.0294034202 1532.121 3.99387455 1.310001e-04

446 281.3900 3.938417e+01 7.449520e+01 2.158996e+02 1.676060e-02 0.0277022570 1534.754 0.85387999 4.057778e-04

447 281.3900 3.774431e+01 6.325054e+01 1.227687e+02 2.291733e-02 0.0208233241 1534.066 1.27233136 2.755556e-05

448 281.3899 2.832799e+01 8.073029e+00 6.471925e+01 6.064663e-02 0.0120188044 1533.802 4.12105513 1.666667e-05

449 281.3898 9.957710e+00 6.765832e-04 3.006433e+01 1.704504e-02 0.0141587919 1533.626 3.86293483 0.000000e+00

450 281.3898 1.858043e+00 3.809901e-04 1.965126e+01 1.580144e-02 0.0173558965 1533.539 4.34541893 6.666668e-07

451 281.3898 8.506997e+00 2.867624e-02 9.742243e+00 1.215115e-01 0.0131475255 1534.927 3.41881227 1.424444e-04

452 281.3897 3.571510e+01 1.009688e+00 1.687583e+01 9.215735e-02 0.0134882936 1538.499 0.91543221 3.857777e-04

453 281.3897 3.776567e+01 1.004969e+00 2.523159e+01 6.746517e-02 0.0156236170 1539.483 3.95471048 1.241111e-04

454 281.3897 4.932600e+01 2.039716e+01 1.221298e+02 2.165714e-02 0.0311287697 1539.185 4.06484699 5.200000e-05

455 281.3896 4.472787e+00 3.809734e+01 1.189065e+02 2.072258e-03 0.0258598570 1538.478 2.93833303 0.000000e+00

456 281.3896 9.085512e-02 3.012404e+00 5.425192e+01 1.674433e-03 0.0232100934 1538.227 5.07938051 0.000000e+00

457 281.3896 2.610063e-02 2.908606e-04 1.989700e+01 1.560147e-03 0.0304060597 1538.139 5.87323236 0.000000e+00

458 281.3895 1.658992e-02 1.736655e-04 1.503146e+01 1.487506e-03 0.0292184204 1538.074 5.27888918 0.000000e+00

459 281.3895 5.909158e-03 2.525282e-02 8.046056e+00 1.461631e-03 0.0164478179 1538.039 3.11802912 0.000000e+00

460 281.3895 6.492415e-02 7.929938e+00 6.713578e+01 1.177349e-03 0.0262240637 1537.710 4.15100288 0.000000e+00

461 281.3894 1.092027e-01 3.899254e+01 1.861796e+02 6.991862e-04 0.0379570462 1536.723 6.09035778 0.000000e+00

462 281.3894 6.183268e-02 6.118460e+01 2.517108e+02 4.284412e-04 0.0456286222 1535.353 6.96749830 0.000000e+00

463 281.3894 1.972754e-02 3.172124e+01 1.878913e+02 3.420607e-04 0.0382186919 1534.391 5.07213831 0.000000e+00

464 281.3893 4.613806e-03 5.255665e+00 9.512026e+01 3.218583e-04 0.0198020395 1533.952 3.50747299 0.000000e+00

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467 281.3893 1.206042e-04 2.102612e-02 8.951675e+00 3.132112e-04 0.0026784919 1533.587 1.25674725 0.000000e+00

468 281.3892 2.882356e-03 8.443509e+00 4.047261e+01 3.005902e-04 0.0186005812 1533.372 1.11465490 0.000000e+00

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478 281.3891 4.722515e-03 5.709664e+01 2.225674e+02 1.450052e-04 0.0497676842 1527.362 7.63694525 0.000000e+00

479 281.3890 3.190156e-03 3.803368e+01 1.901495e+02 1.310365e-04 0.0504388362 1526.363 8.30465603 0.000000e+00

480 281.3890 1.263216e-03 6.630480e+00 1.058321e+02 1.255053e-04 0.0426439941 1525.870 7.54729891 0.000000e+00

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483 281.3890 4.961295e-04 1.668053e-01 5.024321e+01 1.178161e-04 0.0470197201 1525.122 9.32643795 0.000000e+00

484 281.3890 1.149888e-03 1.026195e+01 1.060055e+02 1.127811e-04 0.0533440113 1524.612 8.93032360 0.000000e+00

485 281.3890 2.590621e-03 5.066987e+01 2.313548e+02 1.014376e-04 0.0583666824 1523.377 10.29868507 0.000000e+00

486 281.3890 3.451890e-03 9.608198e+01 3.240019e+02 8.632289e-05 0.0624475181 1521.538 10.64150810 0.000000e+00

487 281.3890 2.081057e-03 7.364009e+01 2.733126e+02 7.721061e-05 0.0524311922 1520.019 8.16520119 0.000000e+00

488 281.3890 8.100159e-04 1.362775e+01 1.688142e+02 7.366382e-05 0.0437473394 1519.220 9.60658073 0.000000e+00

489 281.3890 4.708771e-04 2.758230e-03 1.186271e+02 7.160201e-05 0.0443632305 1518.701 8.84968281 0.000000e+00

490 281.3890 2.904241e-04 1.788979e-03 8.921951e+01 7.033035e-05 0.0379697643 1518.310 7.37549543 0.000000e+00

491 281.3890 2.272992e-04 3.086759e-01 7.609167e+01 6.933509e-05 0.0361365639 1517.976 8.08933258 0.000000e+00

492 281.3890 5.061532e-04 1.451116e+01 1.343339e+02 6.711882e-05 0.0475711413 1517.325 8.71157646 0.000000e+00

493 281.3890 1.046131e-03 5.306719e+01 2.328457e+02 6.253816e-05 0.0573292412 1516.072 9.73932362 0.000000e+00

494 281.3890 1.245601e-03 7.420158e+01 2.697836e+02 5.708407e-05 0.0622756630 1514.566 10.46030045 0.000000e+00

495 281.3890 9.394634e-04 5.347635e+01 2.332246e+02 5.297047e-05 0.0628020391 1513.311 10.80115891 0.000000e+00

496 281.3890 4.131397e-04 1.096499e+01 1.465589e+02 5.116146e-05 0.0514350422 1512.621 8.64925957 0.000000e+00

497 281.3890 2.238043e-04 2.293279e-03 1.035793e+02 5.018149e-05 0.0477864593 1512.168 10.09221458 0.000000e+00

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501 281.3890 4.283383e-04 3.462842e+01 1.765574e+02 4.622254e-05 0.0582077838 1510.068 9.33760262 0.000000e+00

502 281.3891 5.727562e-04 6.213457e+01 2.376195e+02 4.371462e-05 0.0551367700 1508.756 7.63831377 0.000000e+00

503 281.3891 4.269387e-01 5.541628e+01 2.299281e+02 1.764099e-03 0.0491193421 1507.508 8.57559681 3.333334e-07

504 281.3891 1.759773e+00 1.252810e+01 1.458193e+02 4.767625e-03 0.0430295058 1506.818 8.46636868 1.000000e-06

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516 281.3893 1.372592e+01 7.099270e+00 9.027099e+01 1.302092e-02 0.0341669656 1501.617 4.01385403 5.888889e-06

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519 281.3894 3.827193e+01 1.285072e+01 1.509890e+02 2.423260e-02 0.0346322767 1500.958 5.40183210 2.038889e-04

520 281.3895 3.184637e+01 1.326743e+00 7.649397e+01 5.991135e-02 0.0196501892 1503.110 3.04724789 2.577778e-04

521 281.3895 1.786448e+01 4.496374e-04 2.495040e+01 7.750286e-02 0.0060398304 1503.036 1.23306561 1.055555e-05

522 281.3896 1.727991e+01 2.121102e-04 1.569923e+01 1.365947e-01 0.0039007913 1504.847 3.04613948 1.893334e-04

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531 281.3899 1.177590e+01 4.123547e-03 1.209015e+01 1.552607e-01 0.0037055118 1501.288 2.21951890 1.711111e-05

532 281.3899 4.569876e+01 1.790029e+00 4.290766e+01 2.419271e-02 0.0144756967 1500.973 2.51654267 7.555557e-06

533 281.3900 1.101928e+01 1.269265e+01 1.115235e+02 8.702404e-03 0.0316819400 1500.414 5.00674534 3.111112e-06

534 281.3900 4.692240e+00 1.355663e+01 1.152445e+02 7.057122e-03 0.0377011076 1499.848 4.89611530 1.777778e-06

535 281.3901 1.990825e+01 1.447417e+00 6.028609e+01 2.637111e-02 0.0333291329 1499.602 5.85884428 1.033333e-05

536 281.3901 2.973451e+01 4.223253e-01 3.565348e+01 7.013525e-02 0.0243432745 1499.963 2.79350233 6.166667e-05

537 281.3902 1.368590e+01 1.013492e-04 1.126410e+01 1.499361e-01 0.0066385730 1503.278 1.26854634 3.403333e-04

538 281.3902 1.573035e+01 5.117976e-05 6.636075e+00 1.912667e-01 0.0060830158 1505.125 2.46338558 1.925556e-04

539 281.3903 1.831336e+01 2.719520e-03 5.260403e+00 2.069868e-01 0.0078619551 1505.328 3.52629638 2.922222e-05

540 281.3904 7.325410e+01 2.067075e+00 3.589809e+01 3.282551e-02 0.0215125456 1505.061 3.40327096 2.066666e-05

541 281.3904 8.022726e+00 2.819309e+01 1.344388e+02 3.595496e-03 0.0325465165 1504.319 2.94103241 5.555557e-07

542 281.3904 7.854023e+00 4.271035e+01 1.632998e+02 8.196026e-03 0.0335914046 1503.422 3.55944014 3.666667e-06

543 281.3905 1.528851e+00 3.046036e+01 1.507991e+02 1.501687e-03 0.0330269672 1502.622 4.21904755 0.000000e+00

544 281.3905 6.345374e-02 4.547717e+00 7.028819e+01 1.223844e-03 0.0171289425 1502.294 2.14264894 0.000000e+00

545 281.3906 4.846465e-03 2.706545e-04 2.081675e+01 1.202622e-03 0.0039831828 1502.202 1.87793696 0.000000e+00

546 281.3907 3.724570e-03 1.279361e-04 1.666754e+01 1.186314e-03 0.0043875375 1502.129 2.76277471 0.000000e+00

547 281.3907 3.479923e-03 1.930463e-02 1.467577e+01 1.171076e-03 0.0056058154 1502.065 3.15042853 0.000000e+00

548 281.3908 4.577209e-02 7.119768e+00 7.558875e+01 9.706547e-04 0.0231272150 1501.703 3.65743780 0.000000e+00

549 281.3909 7.826329e-02 3.936660e+01 1.694748e+02 6.279653e-04 0.0330426954 1500.787 3.67822099 0.000000e+00

550 281.3909 4.223025e-02 5.030474e+01 1.860070e+02 4.430526e-04 0.0318783969 1499.752 3.15044045 0.000000e+00

551 281.3910 1.804672e-02 3.418752e+01 1.544698e+02 3.640320e-04 0.0271998066 1498.927 3.20160627 0.000000e+00

552 281.3911 2.836650e-03 4.444417e+00 5.986487e+01 3.516112e-04 0.0091864588 1498.645 1.33946788 0.000000e+00

553 281.3911 5.861963e-04 8.299362e-04 2.919665e+01 3.490444e-04 0.0032689879 1498.518 1.37967610 0.000000e+00

554 281.3912 4.180956e-04 6.927479e-04 2.536137e+01 3.472137e-04 0.0024798808 1498.407 1.72918344 0.000000e+00

555 281.3913 3.962831e-04 2.116582e-02 2.514423e+01 3.454785e-04 0.0026758714 1498.296 1.62312174 0.000000e+00

556 281.3914 2.121017e-03 3.525341e+00 5.159645e+01 3.361912e-04 0.0099636903 1498.055 1.48562372 0.000000e+00

557 281.3914 1.111352e-02 4.784282e+01 1.309713e+02 2.875288e-04 0.0250068884 1497.272 1.43025243 0.000000e+00

558 281.3915 9.182884e-03 5.774070e+01 1.339401e+02 2.473199e-04 0.0230732020 1496.432 0.65988106 0.000000e+00

559 281.3915 6.203201e+00 2.673063e+01 1.058281e+02 1.306747e-02 0.0168334879 1495.866 1.90875101 3.777778e-06

560 281.3916 1.224728e+01 3.563163e+00 6.202777e+01 4.431222e-02 0.0069604181 1495.616 2.70785594 8.444446e-06

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562 281.3918 7.891935e+00 3.244664e-04 2.419811e+01 4.088623e-02 0.0077745318 1495.384 3.13305235 3.777778e-06

563 281.3919 4.476171e+00 2.860832e-02 1.379033e+01 5.750571e-02 0.0042163567 1495.344 1.68560231 3.777778e-06

564 281.3920 1.883611e+01 1.009220e+01 5.580740e+01 1.314946e-02 0.0149011621 1495.014 1.34096944 3.777778e-06

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570 281.3925 2.338345e+01 2.602324e-04 2.127545e+01 1.248447e-01 0.0055091982 1493.609 4.36825609 6.677780e-05

571 281.3925 4.062526e+01 2.603755e-02 2.011646e+01 9.531669e-02 0.0192259345 1494.044 6.03975677 6.677780e-05

572 281.3926 5.659493e+01 3.694641e+00 6.027695e+01 2.649939e-02 0.0359072238 1494.217 5.68849659 6.677780e-05

573 281.3927 4.569794e+01 1.867473e+01 1.432362e+02 1.790539e-02 0.0426061414 1494.011 6.13188505 6.677780e-05

574 281.3928 4.279366e+01 1.480991e+01 1.408087e+02 2.207381e-02 0.0404763892 1493.846 5.62434864 6.677780e-05

575 281.3929 1.184369e+01 8.998671e+00 1.127225e+02 1.237084e-02 0.0374624915 1493.305 5.27951288 4.000001e-06

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577 281.3931 7.276411e+00 5.536454e-04 3.449704e+01 1.720029e-02 0.0086910473 1492.921 2.06555104 2.222223e-07

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579 281.3933 2.459432e+00 9.605289e-02 3.354554e+01 1.483729e-02 0.0102513926 1492.644 3.81994820 6.666668e-07

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581 281.3935 1.967206e+00 1.733148e+01 1.298786e+02 2.539910e-03 0.0427157693 1491.681 6.30673790 2.222223e-07

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583 281.3937 2.637039e+01 2.568043e+01 1.474107e+02 1.621914e-02 0.0475343503 1490.008 7.14409304 1.200000e-05

584 281.3938 3.868586e+01 3.836201e+00 8.201452e+01 3.734905e-02 0.0364846252 1489.998 6.73139858 5.055556e-05

585 281.3939 4.224629e+01 5.417345e-04 5.341895e+01 3.807621e-02 0.0377260856 1491.455 8.68162918 1.805555e-04

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615 281.3975 1.417119e-02 5.860334e+01 1.508462e+02 3.049951e-04 0.0205640141 1480.896 0.44195414 0.000000e+00

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617 281.3977 2.908524e-03 2.001461e-03 9.015952e+01 2.841729e-04 0.0171284657 1480.147 5.24780464 0.000000e+00

618 281.3979 2.044681e-03 1.193432e-03 6.674955e+01 2.752200e-04 0.0180855561 1479.855 5.42312336 0.000000e+00

619 281.3980 1.969925e-03 1.137678e-01 5.802196e+01 2.665944e-04 0.0232007485 1479.601 6.62453842 0.000000e+00

620 281.3982 2.827532e-03 6.452464e+00 8.337275e+01 2.542135e-04 0.0232436508 1479.208 2.99993491 0.000000e+00

621 281.3983 8.288716e-03 4.009543e+01 1.932953e+02 2.179200e-04 0.0315193795 1478.187 6.95651340 0.000000e+00

622 281.3984 1.176299e-02 7.130289e+01 2.667383e+02 1.664137e-04 0.0487524979 1476.706 9.45098686 0.000000e+00

623 281.3986 6.482067e-03 4.804318e+01 2.067268e+02 1.380309e-04 0.0538313948 1475.591 7.98231459 0.000000e+00

624 281.3987 1.787211e-03 7.800010e+00 1.168787e+02 1.302053e-04 0.0328416675 1475.045 5.37104654 0.000000e+00

625 281.3989 3.103176e+01 7.108271e-04 7.553785e+01 4.761803e-02 0.0173021369 1477.444 5.06209898 2.774444e-04

626 281.3990 2.752997e+01 2.355598e-04 4.263390e+01 9.504378e-02 0.0110622616 1479.229 3.34856725 2.051112e-04

627 281.3992 9.177092e+00 1.173519e-02 1.771575e+01 5.486029e-02 0.0041857674 1479.111 2.04288912 0.000000e+00

628 281.3993 1.100006e+01 5.187959e+00 5.303868e+01 6.694599e-03 0.0154080512 1478.808 1.47446787 0.000000e+00

629 281.3995 1.166943e+00 3.131397e+01 1.303331e+02 1.584937e-03 0.0275947247 1478.095 2.65635490 0.000000e+00

630 281.3996 1.913814e-01 5.214376e+01 1.726708e+02 7.469407e-04 0.0316740870 1477.109 2.44093657 0.000000e+00

631 281.3998 3.872652e+01 3.183943e+01 1.477633e+02 2.327077e-02 0.0262152776 1477.134 3.48267317 9.322222e-05

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634 281.4002 3.986642e+01 3.023460e-04 3.581578e+01 7.895036e-02 0.0120696099 1478.952 4.52797985 9.322222e-05

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636 281.4005 2.598432e+01 2.297622e-01 1.149351e+01 1.602277e-01 0.0036775370 1480.584 1.11590993 9.322222e-05

637 281.4007 7.405397e+01 2.557588e+01 7.745284e+01 2.054222e-02 0.0238383040 1480.784 0.62288254 9.322222e-05

638 281.4008 4.424520e+01 5.396011e+01 1.599661e+02 1.815252e-02 0.0277226511 1480.632 2.62746167 9.322222e-05

639 281.4010 3.670121e+00 1.556049e+01 1.277678e+02 2.082252e-03 0.0353614539 1479.988 8.00792694 0.000000e+00

640 281.4011 1.112458e-01 1.297938e+00 4.593843e+01 1.595143e-03 0.0357046500 1479.780 4.72935724 0.000000e+00

641 281.4013 1.993964e-02 3.099499e-04 1.704153e+01 1.507834e-03 0.0189809166 1479.705 1.58843184 0.000000e+00

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643 281.4016 4.816150e-03 1.129746e-02 7.273688e+00 1.438987e-03 0.0126287574 1479.618 3.74529099 0.000000e+00

644 281.4018 5.684000e-02 4.548994e+00 5.536914e+01 1.190103e-03 0.0272955615 1479.355 3.51418114 0.000000e+00

645 281.4020 1.019366e-01 3.158696e+01 1.433413e+02 7.437561e-04 0.0329839326 1478.588 3.03527594 0.000000e+00

646 281.4022 5.752020e-02 5.397330e+01 1.691455e+02 4.918939e-04 0.0312923416 1477.611 1.86434054 0.000000e+00

647 281.4023 1.014077e+01 3.819492e+01 1.113848e+02 1.371915e-02 0.0229143556 1476.971 2.49999571 5.444445e-06

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656 281.4038 3.352621e+01 3.061083e-01 4.067741e+01 5.693202e-02 0.0227214396 1484.266 5.00149679 1.106667e-04

657 281.4040 8.793344e+00 2.838416e-04 2.265943e+01 1.842883e-02 0.0166357923 1484.129 2.93008947 0.000000e+00

658 281.4042 9.971822e-01 1.510800e-04 1.029079e+01 1.406249e-02 0.0144202309 1484.080 3.53748274 0.000000e+00

659 281.4044 6.015216e-01 2.106236e-02 9.260021e+00 1.142863e-02 0.0158315580 1484.037 2.01151276 0.000000e+00

660 281.4046 5.709359e-01 2.796038e-01 1.049936e+01 8.928682e-03 0.0134934336 1483.987 1.41776776 0.000000e+00

661 281.4048 1.345514e+00 9.908261e+00 7.051258e+01 3.037112e-03 0.0278549045 1483.630 4.20240879 0.000000e+00

662 281.4049 4.581657e-01 3.882002e+01 1.708575e+02 1.030953e-03 0.0406763740 1482.710 5.55343342 0.000000e+00

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664 281.4053 1.482818e-02 3.192374e+00 5.969196e+01 5.842460e-04 0.0280783940 1481.676 2.69649959 0.000000e+00

665 281.4055 1.287666e-03 2.089730e-04 1.355938e+01 5.786078e-04 0.0097619658 1481.616 2.23250175 0.000000e+00

666 281.4057 1.968777e+00 4.667329e-05 3.885883e+00 1.446002e-01 0.0050550601 1482.994 1.67744541 1.351111e-04

667 281.4059 9.585392e+00 2.538868e-03 2.721329e+00 2.051192e-01 0.0102923419 1483.744 4.39007235 7.733332e-05

668 281.4061 6.905303e+01 1.194367e+00 2.408825e+01 3.730800e-02 0.0291223004 1483.563 5.16026449 2.188890e-05

669 281.4062 1.530088e+01 1.396619e+01 1.114879e+02 8.789929e-03 0.0417805612 1482.986 6.19758892 3.666667e-06

670 281.4064 3.909071e+01 1.860956e+01 1.286649e+02 2.064695e-02 0.0377828814 1482.646 6.44645262 4.511111e-05

671 281.4066 3.724195e+00 7.924146e-01 5.620358e+01 4.339910e-03 0.0387401022 1482.381 6.55341339 0.000000e+00

672 281.4068 2.221218e-01 2.485067e-01 2.572064e+01 3.367310e-03 0.0293753073 1482.267 2.76734495 0.000000e+00

673 281.4070 1.766568e-02 6.576266e-05 5.503276e+00 3.289959e-03 0.0096367095 1482.243 2.36531997 0.000000e+00

674 281.4072 6.041154e-03 2.057160e-05 2.246167e+00 3.263506e-03 0.0084785214 1482.234 2.55129957 0.000000e+00

675 281.4074 4.479184e-03 2.192112e-03 1.619864e+00 3.243893e-03 0.0096986238 1482.227 3.37612581 0.000000e+00

676 281.4076 1.983146e-01 2.848660e+00 4.122070e+01 2.375538e-03 0.0285737310 1482.034 4.44956970 0.000000e+00

677 281.4078 2.778609e-01 2.231742e+01 1.273607e+02 1.158876e-03 0.0380472317 1481.377 4.37292004 0.000000e+00

678 281.4080 1.130726e-01 4.250870e+01 1.697655e+02 6.637680e-04 0.0365295224 1480.447 3.25348568 0.000000e+00

679 281.4082 3.807939e-02 2.881384e+01 1.448242e+02 4.970307e-04 0.0329022668 1479.686 4.37677288 0.000000e+00

680 281.4084 7.432287e-03 3.594633e+00 6.408437e+01 4.644872e-04 0.0169564988 1479.390 2.37679243 0.000000e+00

681 281.4086 7.353287e-04 2.591158e-04 1.994769e+01 4.612674e-04 0.0045914454 1479.303 2.65217185 0.000000e+00

682 281.4088 3.711937e-04 1.035559e-04 1.149426e+01 4.596420e-04 0.0035795029 1479.253 2.19202542 0.000000e+00

683 281.4090 5.888819e-04 9.137435e-03 1.232278e+01 4.570635e-04 0.0080796639 1479.198 4.08889294 0.000000e+00

684 281.4092 7.908843e-03 4.847605e+00 6.656905e+01 4.224333e-04 0.0294262171 1478.886 5.19755745 0.000000e+00

685 281.4094 2.044292e-02 3.082981e+01 1.687764e+02 3.329203e-04 0.0425054468 1478.012 6.62782145 0.000000e+00

686 281.4096 1.939084e-02 5.406926e+01 2.222698e+02 2.480142e-04 0.0477968864 1476.802 7.25642061 0.000000e+00

687 281.4098 1.035840e-02 4.047813e+01 1.957475e+02 2.026581e-04 0.0454344563 1475.767 7.16329384 0.000000e+00

688 281.4100 2.062221e+01 6.255600e+00 1.094303e+02 2.142083e-02 0.0341024064 1475.286 7.08210373 1.066667e-05

689 281.4102 4.122868e+00 1.412083e-03 7.853266e+01 3.368139e-03 0.0347591415 1474.924 8.02708721 0.000000e+00

690 281.4104 6.844591e+00 1.007537e-03 6.535497e+01 1.648420e-02 0.0342624411 1474.652 6.63611364 4.111112e-06

691 281.4106 2.454086e+00 3.520604e-02 4.506657e+01 5.738555e-03 0.0286936667 1474.444 6.22491932 0.000000e+00

692 281.4109 7.803221e-01 6.289793e+00 7.987421e+01 2.321779e-03 0.0358893797 1474.063 6.04260349 0.000000e+00

693 281.4111 3.235218e-01 2.668532e+01 1.627661e+02 9.051824e-04 0.0431252122 1473.232 7.05783558 0.000000e+00

694 281.4113 1.065407e-01 5.826730e+01 2.359459e+02 4.386754e-04 0.0457291715 1471.943 6.28993940 0.000000e+00

695 281.4115 1.642527e+01 4.117826e+01 1.875461e+02 1.339735e-02 0.0331796966 1470.956 4.16057968 8.000002e-06

696 281.4117 3.268491e+01 3.919350e+00 8.216095e+01 3.701518e-02 0.0135379657 1470.614 5.09794426 1.655556e-05

697 281.4120 2.444425e+01 8.003718e-04 4.014830e+01 8.718261e-02 0.0090766763 1470.547 3.01279902 2.011112e-05

698 281.4122 1.906370e+01 2.894249e-04 1.764695e+01 1.331302e-01 0.0054516867 1470.747 3.34443521 3.422222e-05

699 281.4124 1.339335e+01 5.528717e-03 9.961596e+00 1.839643e-01 0.0036242185 1471.678 1.80272079 9.900003e-05

700 281.4126 6.900750e+01 4.259091e+00 5.326049e+01 2.311033e-02 0.0177639704 1472.561 6.81741667 1.384444e-04

701 281.4128 4.166444e+01 1.225338e+01 1.915120e+02 1.722635e-02 0.0429047532 1475.298 8.06810379 3.780000e-04

702 281.4131 3.743779e+01 5.429993e+00 1.473599e+02 2.779607e-02 0.0358170085 1478.144 5.11578655 3.697779e-04

703 281.4133 3.929462e+01 5.231934e+00 1.111298e+02 2.867590e-02 0.0300283302 1478.888 5.60456753 1.386667e-04

704 281.4135 2.761798e+01 2.572655e+00 6.992538e+01 7.156521e-02 0.0160051677 1479.888 3.13621616 1.386667e-04

705 281.4137 3.276252e+01 2.942637e-04 3.198531e+01 7.048216e-02 0.0118787102 1481.037 5.59916878 1.386667e-04

706 281.4139 2.373152e+01 1.933930e-04 2.814188e+01 1.108053e-01 0.0105753308 1482.241 2.40092564 1.386667e-04

707 281.4142 1.018932e+01 3.152766e-03 9.326652e+00 1.810122e-01 0.0028639513 1483.582 1.80272079 1.386667e-04

708 281.4144 6.061488e+01 4.212757e+00 2.349041e+01 3.380291e-02 0.0092990594 1484.622 0.90764099 1.386667e-04

709 281.4146 4.336856e+01 3.957543e+01 9.729932e+01 1.800164e-02 0.0240784343 1485.268 1.05164206 1.386667e-04

710 281.4148 4.028072e+01 6.546114e+01 1.313658e+02 1.757695e-02 0.0253216717 1485.668 0.54490507 1.386667e-04

711 281.4151 3.745421e+01 3.347933e+01 1.212210e+02 2.717502e-02 0.0209676009 1486.265 2.65019321 1.386667e-04

712 281.4153 4.380806e+00 3.071482e+00 5.993085e+01 7.992904e-03 0.0083759576 1485.970 2.15485287 0.000000e+00

713 281.4155 5.131639e-01 6.361713e-04 4.173820e+01 5.745927e-03 0.0100724101 1485.786 4.47607756 0.000000e+00

714 281.4158 3.035474e-01 4.265600e-04 3.690462e+01 4.416793e-03 0.0139607638 1485.623 3.83743691 0.000000e+00

715 281.4160 3.670653e+00 1.649961e-02 2.584832e+01 2.739433e-02 0.0139424875 1485.535 4.49890947 3.800000e-06

716 281.4163 1.982179e+01 5.688307e+00 7.798363e+01 1.418674e-02 0.0323280655 1485.159 6.58799648 7.159998e-06

717 281.4165 1.130207e+01 1.852066e+01 1.417039e+02 9.467246e-03 0.0395981334 1484.453 5.31876278 4.239999e-06

718 281.4167 1.087790e+01 2.584801e+01 1.628382e+02 9.258757e-03 0.0385984145 1483.627 6.01743603 4.479999e-06

719 281.4170 1.796282e+00 2.680263e+01 1.617918e+02 1.393423e-03 0.0396577753 1482.794 5.72264671 0.000000e+00

720 281.4172 5.132839e-02 2.591920e+00 5.705466e+01 1.168673e-03 0.0233877171 1482.533 3.92943621 0.000000e+00

721 281.4174 9.659761e-03 2.392554e-04 1.595883e+01 1.126376e-03 0.0216875616 1482.463 4.14769983 0.000000e+00

722 281.4177 6.778836e-04 1.807480e-02 4.884523e+00 1.123408e-03 0.0193860400 1482.442 3.47693729 0.000000e+00

723 281.4179 2.095542e+00 2.257479e-03 3.183663e+00 1.351520e-01 0.0094662579 1484.324 0.33121860 1.850001e-04

724 281.4182 4.057283e+01 9.071034e-01 1.379374e+01 7.969680e-02 0.0154739292 1485.362 2.55009937 1.244800e-04

725 281.4184 1.770591e+01 3.328203e+01 1.238431e+02 2.168385e-03 0.0282091051 1484.596 2.33996987 0.000000e+00

726 281.4186 3.096080e-01 6.267650e+01 2.154745e+02 8.127120e-04 0.0324176662 1483.377 4.42514992 0.000000e+00

727 281.4189 9.293544e+00 4.310170e+01 1.722794e+02 1.223261e-02 0.0266196039 1482.446 2.03775096 4.920001e-06

728 281.4191 6.172390e+00 5.001897e+00 5.464450e+01 3.525008e-02 0.0078862952 1482.211 2.19207788 4.920001e-06

729 281.4193 3.706347e+00 3.280024e-04 1.380444e+01 6.513735e-02 0.0024108854 1482.188 1.15572953 4.920001e-06

730 281.4196 2.390855e+00 1.463209e-04 5.404621e+00 9.618052e-02 0.0012858714 1482.206 0.66419852 4.920001e-06

731 281.4199 2.557579e+00 2.621534e-03 2.803811e+00 1.908455e-01 0.0011611518 1482.719 0.96451348 5.124001e-05

732 281.4201 6.850419e+01 7.672506e+00 5.029404e+01 2.633998e-02 0.0124241197 1483.932 2.45032573 1.714000e-04

733 281.4203 4.145814e+01 4.230730e+01 1.917428e+02 1.502129e-02 0.0287485868 1483.062 4.47795916 3.188000e-05

734 281.4206 3.964182e+01 6.355363e+01 2.536673e+02 1.372323e-02 0.0366973504 1481.809 5.63149214 2.912001e-05

735 281.4209 2.842667e+00 3.162596e+01 1.879052e+02 1.276114e-03 0.0338513963 1480.835 6.05858326 0.000000e+00

736 281.4211 3.515243e-01 4.317914e+00 8.678268e+01 4.451983e-03 0.0270549152 1480.439 4.68438435 4.400000e-07

737 281.4214 1.624488e+01 3.563175e-04 2.192430e+01 8.421274e-02 0.0205591545 1480.636 3.85789895 3.448000e-05

738 281.4216 2.194486e+01 1.316317e-04 9.928195e+00 1.147956e-01 0.0224439595 1480.844 5.43283224 3.300000e-05

739 281.4219 2.746223e+01 4.616175e-03 8.513268e+00 1.098327e-01 0.0331107043 1480.849 7.44234419 1.520000e-05

740 281.4221 3.208317e+01 4.097830e+00 4.879556e+01 1.401803e-02 0.0362702347 1480.526 4.92009592 4.640001e-06

741 281.4224 5.185930e+00 2.724676e+01 1.319003e+02 5.317848e-03 0.0314279981 1479.820 2.34127665 1.320000e-06

742 281.4226 9.085556e-01 3.305256e+01 1.395867e+02 1.768356e-03 0.0230897907 1479.061 2.09322119 3.999999e-08

743 281.4229 3.304348e+01 3.873761e+01 1.541249e+02 2.483783e-02 0.0205048490 1480.691 1.93595076 2.536800e-04

744 281.4232 1.840135e+01 4.204583e+00 3.894035e+01 9.269430e-02 0.0063066334 1482.918 1.15930021 2.465200e-04

745 281.4234 1.620770e+01 3.853504e-04 1.608557e+01 1.265508e-01 0.0038175920 1482.929 3.24421358 1.432000e-05

746 281.4236 1.330385e+01 1.945074e-02 1.094332e+01 1.453564e-01 0.0046418374 1482.940 2.39329648 1.100000e-05

747 281.4239 1.203067e+01 7.262660e-03 9.636657e+00 9.267806e-02 0.0060514859 1482.845 3.16892958 0.000000e+00

748 281.4242 4.663536e+01 3.534277e+00 4.268241e+01 3.064342e-02 0.0158988833 1482.722 3.29314947 2.684000e-05

749 281.4245 6.599789e+00 3.871879e+01 1.526050e+02 1.745099e-03 0.0268337671 1481.855 2.09138560 0.000000e+00

750 281.4247 7.286519e+00 4.341234e+01 1.499698e+02 9.298182e-03 0.0233825278 1481.017 1.65596831 3.720000e-06

751 281.4250 3.353575e+01 2.797567e+01 1.029000e+02 2.718183e-02 0.0189587157 1482.280 1.10310411 1.913200e-04

752 281.4253 1.979114e+01 3.847939e+00 4.156767e+01 8.865333e-02 0.0079973117 1486.633 1.78387916 4.762401e-04

753 281.4255 6.997334e+00 3.808986e-02 1.384558e+01 5.801427e-02 0.0032766853 1486.541 1.98858941 0.000000e+00

754 281.4258 4.855196e+00 2.099433e-04 7.695597e+00 1.554309e-01 0.0019162580 1487.375 0.61447251 8.563999e-05

755 281.4261 4.927382e+00 3.201726e-03 3.410570e+00 2.149135e-01 0.0012990622 1488.341 1.40759420 9.704000e-05

756 281.4264 7.034527e+01 5.358438e+00 2.391423e+01 2.723005e-02 0.0109758712 1488.154 1.26064992 2.368000e-05

757 281.4266 2.174653e+01 9.026996e+00 7.109334e+01 1.983667e-02 0.0188839454 1487.800 2.99258232 8.600003e-06

758 281.4269 2.055241e+01 1.006633e+01 7.885953e+01 2.231883e-02 0.0203862153 1487.418 1.70704913 8.999997e-06

759 281.4272 4.382611e+00 1.499903e+01 8.697872e+01 3.128805e-03 0.0217063073 1486.953 2.31751823 0.000000e+00

760 281.4274 1.632105e-01 1.622716e+00 4.518402e+01 2.414160e-03 0.0185220856 1486.747 3.70248890 0.000000e+00

761 281.4277 5.755048e-02 3.715784e-04 2.219064e+01 2.162165e-03 0.0217210650 1486.649 3.20236921 0.000000e+00

762 281.4280 3.004872e-02 3.442471e-04 1.460572e+01 2.030592e-03 0.0139669375 1486.585 0.68680274 0.000000e+00

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764 281.4285 8.244503e-02 4.066527e+00 4.000746e+01 1.658997e-03 0.0218972582 1486.380 3.38807178 0.000000e+00

765 281.4288 1.732000e-01 2.935033e+01 1.482381e+02 9.006102e-04 0.0346626900 1485.602 4.71201944 0.000000e+00

766 281.4290 8.561460e-02 4.860506e+01 2.114509e+02 5.257319e-04 0.0387955941 1484.462 5.11661434 0.000000e+00

767 281.4294 2.908622e-02 3.014052e+01 1.745967e+02 3.983728e-04 0.0360497162 1483.566 5.25997782 0.000000e+00

768 281.4296 5.617369e-03 3.329317e+00 7.579690e+01 3.737761e-04 0.0186091643 1483.220 3.01578808 0.000000e+00

769 281.4299 1.124957e-03 3.978462e-04 3.224442e+01 3.688502e-04 0.0083608693 1483.078 2.93142676 0.000000e+00

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771 281.4305 1.618470e-04 2.174834e-03 9.097528e+00 3.656069e-04 0.0019872182 1482.943 1.19333518 0.000000e+00

772 281.4308 3.408865e-03 4.691373e+00 4.327678e+01 3.506806e-04 0.0146863535 1482.732 1.77132046 0.000000e+00

773 281.4311 1.130070e-02 2.996435e+01 1.362552e+02 3.011986e-04 0.0271665826 1482.004 2.82307220 0.000000e+00

774 281.4314 1.193288e-02 4.909835e+01 1.896717e+02 2.489484e-04 0.0310455784 1480.958 3.04871678 0.000000e+00

775 281.4316 6.097082e-03 3.132294e+01 1.457164e+02 2.222513e-04 0.0252818670 1480.183 2.29368639 0.000000e+00

776 281.4319 9.840075e-04 3.156947e+00 5.192096e+01 2.179427e-04 0.0088234711 1479.942 1.85549629 0.000000e+00

777 281.4322 1.550445e-04 3.046858e-04 1.980327e+01 2.172637e-04 0.0030597656 1479.854 1.59579706 0.000000e+00

778 281.4325 7.889631e-05 1.653173e-04 1.224254e+01 2.169183e-04 0.0019613467 1479.801 1.44844031 0.000000e+00

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781 281.4334 5.056442e-03 3.294665e+01 1.650120e+02 1.880675e-04 0.0304789376 1478.611 4.09476709 0.000000e+00

782 281.4337 5.696750e-03 5.194706e+01 2.106510e+02 1.631234e-04 0.0335236788 1477.461 3.76214123 0.000000e+00

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784 281.4342 1.795158e+00 3.908152e+00 8.928761e+01 8.697753e-03 0.0241913423 1476.137 5.28291559 1.240000e-06

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789 281.4357 6.233888e-01 3.772447e+01 1.462640e+02 1.220441e-03 0.0257107839 1474.735 2.49087358 0.000000e+00

790 281.4360 1.443861e-01 5.776880e+01 2.167373e+02 5.882215e-04 0.0293981489 1473.532 3.38459682 0.000000e+00

791 281.4363 3.096155e+01 3.670366e+01 1.759469e+02 2.328901e-02 0.0218535140 1473.277 1.90287960 7.743997e-05

792 281.4366 3.180829e+00 3.495753e+00 5.111068e+01 9.361189e-03 0.0045078960 1473.025 1.66007340 0.000000e+00

793 281.4370 4.890414e+00 3.340909e-04 1.597483e+01 1.174525e-01 0.0015921741 1474.519 1.36820269 1.529200e-04

794 281.4373 7.911538e+00 1.937918e-04 8.665767e+00 1.745227e-01 0.0012007774 1476.270 0.51289982 1.783201e-04

795 281.4376 8.191686e+00 2.351770e-03 7.790344e+00 1.386540e-01 0.0012539778 1476.200 1.54396713 0.000000e+00

796 281.4379 1.081271e+01 5.433041e-01 1.441961e+01 9.130867e-02 0.0015611871 1476.087 0.49419838 0.000000e+00

797 281.4382 1.869987e+01 3.616206e+00 6.079055e+01 9.428058e-03 0.0093680341 1475.723 4.55540085 0.000000e+00

798 281.4384 1.933766e+00 4.345815e+01 2.200078e+02 9.607266e-04 0.0352798142 1474.561 5.22648478 0.000000e+00

799 281.4388 8.774883e-02 3.460721e+01 1.847071e+02 5.765032e-04 0.0303980410 1473.600 3.88416815 0.000000e+00

800 281.4391 9.380047e-03 3.726226e+00 7.615198e+01 5.354310e-04 0.0123999640 1473.250 3.85829520 0.000000e+00

801 281.4394 3.166562e-03 5.516247e-04 3.825827e+01 5.215657e-04 0.0101576662 1473.082 3.58587575 0.000000e+00

802 281.4397 1.998065e-03 3.192554e-04 2.558474e+01 5.128167e-04 0.0099061439 1472.969 3.24754572 0.000000e+00

803 281.4400 1.179321e-03 3.210473e-03 1.701007e+01 5.076528e-04 0.0085983546 1472.894 3.13922477 0.000000e+00

804 281.4403 8.469921e-03 5.643417e+00 6.337414e+01 4.705658e-04 0.0186852906 1472.591 2.81625986 0.000000e+00

805 281.4406 2.579673e-02 3.664642e+01 1.861860e+02 3.576103e-04 0.0298945215 1471.615 4.55220938 0.000000e+00

806 281.4409 2.282161e-02 5.692627e+01 2.443542e+02 2.576819e-04 0.0349197760 1470.296 4.84541035 0.000000e+00

807 281.4412 3.107445e+01 3.075019e+01 2.346796e+02 1.983459e-02 0.0287515763 1471.605 4.99903774 2.508401e-04

808 281.4415 2.923802e+01 2.208361e+00 1.039199e+02 3.814705e-02 0.0154062733 1473.156 4.83861542 2.087201e-04

809 281.4419 2.818788e+01 6.893449e-04 5.755468e+01 5.369046e-02 0.0142376013 1475.006 4.45193624 2.184400e-04

810 281.4422 2.248853e+01 4.470851e-04 3.397069e+01 8.356021e-02 0.0107056303 1476.351 3.22963858 1.552400e-04

811 281.4425 1.118831e+01 2.390852e-03 1.950358e+01 4.381492e-02 0.0077042743 1476.228 2.65849543 1.040000e-06

812 281.4428 8.562368e+00 4.352186e+00 5.438752e+01 6.728799e-03 0.0149924243 1475.933 2.43295717 3.999999e-08

813 281.4431 1.233306e+00 3.374574e+01 1.637605e+02 1.328554e-03 0.0282401815 1475.063 3.36501336 0.000000e+00

814 281.4435 1.596721e-01 5.342856e+01 2.037045e+02 6.294018e-04 0.0295110270 1473.937 2.71169090 0.000000e+00

815 281.4438 4.228571e-02 3.563385e+01 1.810443e+02 4.442465e-04 0.0282850210 1472.988 4.83977699 0.000000e+00

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817 281.4444 9.069759e-04 5.371615e-04 3.069331e+01 4.090251e-04 0.0033992387 1472.450 1.36392891 0.000000e+00

818 281.4448 4.611604e-04 3.271251e-04 2.027798e+01 4.070059e-04 0.0019969344 1472.362 2.16007185 0.000000e+00

819 281.4451 2.653843e-04 2.147370e-03 1.217921e+01 4.058439e-04 0.0015499755 1472.309 1.01278555 0.000000e+00

820 281.4454 4.721258e-03 8.413059e+00 5.112831e+01 3.851711e-04 0.0101424763 1472.049 1.11134672 0.000000e+00

821 281.4457 1.749905e-02 4.618170e+01 1.653374e+02 3.085485e-04 0.0227136109 1471.123 3.38555312 0.000000e+00

822 281.4460 1.760475e-02 6.008294e+01 2.548636e+02 2.314630e-04 0.0317375772 1469.744 4.77893257 0.000000e+00

823 281.4464 8.391756e-01 4.017656e+01 2.100590e+02 2.999651e-03 0.0306089688 1468.651 5.35476398 6.000000e-07

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827 281.4477 5.450455e+00 4.483932e-03 4.236633e+01 2.562661e-02 0.0179803036 1467.397 4.43997431 4.560002e-06

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831 281.4490 1.158147e+01 3.539229e+01 1.668740e+02 1.185210e-02 0.0217406470 1464.161 2.16424561 5.119999e-06

832 281.4493 3.958360e+00 2.267131e+00 3.535236e+01 3.292552e-02 0.0029416287 1464.021 2.65822864 3.840001e-06

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835 281.4503 2.260271e+00 1.913246e-03 2.233833e+01 1.917625e-02 0.0133192176 1463.653 3.54500365 1.600000e-06

836 281.4507 1.083200e+01 4.420537e+00 7.097692e+01 1.008772e-02 0.0238590371 1463.315 4.41324377 3.720000e-06

837 281.4510 2.878787e+00 2.662740e+01 1.670067e+02 2.606049e-03 0.0321904458 1462.460 3.58372927 4.800001e-07

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839 281.4517 2.946085e+01 1.420325e+01 1.903879e+02 2.005192e-02 0.0268558655 1463.353 5.44593668 2.850000e-04

840 281.4521 2.604684e+01 1.402078e+00 9.221352e+01 4.451670e-02 0.0153435059 1465.048 4.35385132 2.170400e-04

841 281.4524 8.511357e+00 4.041207e-04 5.684779e+01 7.248240e-03 0.0188969430 1464.762 5.86182833 0.000000e+00

842 281.4527 2.135369e+01 2.981986e-04 4.274080e+01 5.016234e-02 0.0186309163 1464.819 3.61469173 3.191999e-05

843 281.4531 3.275692e+01 5.093941e-03 3.811428e+01 3.772334e-02 0.0211998373 1464.738 6.43282795 2.152001e-05

844 281.4534 1.757200e+01 1.233993e+00 6.231569e+01 1.363809e-02 0.0364691727 1464.439 7.05919600 5.160000e-06

845 281.4537 2.748680e+00 7.198208e+00 1.139227e+02 1.602517e-03 0.0468071550 1463.897 8.18908119 0.000000e+00

846 281.4541 2.071097e-01 1.545579e+01 1.521736e+02 6.956509e-04 0.0507758223 1463.162 8.05515480 0.000000e+00

847 281.4544 4.911857e-02 1.067010e+01 1.295618e+02 4.805766e-04 0.0451228581 1462.547 6.79163599 0.000000e+00

848 281.4548 1.063634e-02 9.342522e-01 6.965473e+01 4.340035e-04 0.0272420812 1462.238 4.93784904 0.000000e+00

849 281.4551 3.723768e-03 2.677831e-04 3.993259e+01 4.176983e-04 0.0199612956 1462.063 4.86348438 0.000000e+00

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852 281.4562 6.747593e-03 1.906145e+00 5.673936e+01 3.698902e-04 0.0341118015 1461.588 6.51161146 0.000000e+00

853 281.4565 1.661653e-02 1.409891e+01 1.410263e+02 2.971319e-04 0.0443288423 1460.908 6.61612797 0.000000e+00

854 281.4569 1.507141e-02 2.457478e+01 1.784204e+02 2.311391e-04 0.0462929420 1460.020 6.97958183 0.000000e+00

855 281.4572 8.007749e-03 1.525704e+01 1.483234e+02 1.960758e-04 0.0436445475 1459.304 7.21532059 0.000000e+00

856 281.4576 1.674755e-03 1.373340e+00 6.622307e+01 1.887425e-04 0.0196667854 1459.007 2.51161671 0.000000e+00

857 281.4579 2.344276e-04 1.439946e-04 2.757326e+01 1.877160e-04 0.0058405534 1458.886 3.02848196 0.000000e+00

858 281.4583 1.675978e-04 7.034891e-05 2.171446e+01 1.869822e-04 0.0052237534 1458.790 2.49593091 0.000000e+00

859 281.4587 9.525846e-05 9.693580e-05 1.398415e+01 1.865650e-04 0.0043343245 1458.729 3.08580637 0.000000e+00

860 281.4590 1.208621e-03 2.284124e+00 5.881353e+01 1.812728e-04 0.0190771408 1458.460 3.75266957 0.000000e+00

861 281.4594 3.971647e-03 1.773513e+01 1.415954e+02 1.638823e-04 0.0315615498 1457.762 3.84873581 0.000000e+00

862 281.4597 4.496916e-03 2.912864e+01 1.746249e+02 1.441918e-04 0.0337340422 1456.870 3.94907904 0.000000e+00

863 281.4601 2.537221e-03 1.780789e+01 1.356069e+02 1.330821e-04 0.0277534351 1456.199 2.93040919 0.000000e+00

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865 281.4608 1.021120e-04 1.489929e-04 2.664494e+01 1.311548e-04 0.0046545905 1455.873 2.35307074 0.000000e+00

866 281.4612 6.143141e-05 6.444661e-05 1.931951e+01 1.308857e-04 0.0036181186 1455.788 3.05205727 0.000000e+00

867 281.4615 1.075987e-04 1.222997e-04 2.378913e+01 1.304146e-04 0.0072397348 1455.684 3.45336390 0.000000e+00

868 281.4619 7.381912e-04 2.233687e+00 6.451168e+01 1.271823e-04 0.0230570827 1455.393 5.00675869 0.000000e+00

869 281.4622 2.366355e-03 1.669699e+01 1.493094e+02 1.168208e-04 0.0380010344 1454.666 6.02152491 0.000000e+00

870 281.4626 2.795257e-03 3.102735e+01 1.887986e+02 1.045813e-04 0.0380554162 1453.703 4.52757406 0.000000e+00

871 281.4630 4.007513e+00 2.084683e+01 1.480190e+02 7.252790e-03 0.0287346449 1452.971 3.73311019 2.320001e-06

872 281.4633 1.071420e+00 1.825320e+00 6.085619e+01 5.952532e-03 0.0115881311 1452.696 3.74332976 3.199999e-07

873 281.4637 1.586759e+00 2.942105e-04 2.968200e+01 1.564612e-02 0.0116454912 1452.576 3.77865505 1.600000e-06

874 281.4641 1.913323e+00 1.196144e-04 1.420446e+01 1.949712e-02 0.0135391476 1452.519 3.50381351 1.200000e-06

875 281.4645 4.199312e-01 3.610168e-05 3.604188e+00 1.765838e-02 0.0057974290 1452.501 0.74005336 0.000000e+00

876 281.4648 2.593000e+00 1.678378e+00 3.000897e+01 6.304478e-03 0.0168202762 1452.351 3.07379889 0.000000e+00

877 281.4652 1.589814e+00 1.533579e+01 1.213745e+02 2.332251e-03 0.0315531045 1451.748 4.06425428 2.799999e-07

878 281.4656 2.593210e+00 2.623034e+01 1.653903e+02 3.799112e-03 0.0332790911 1450.911 4.06978607 1.200000e-06

879 281.4659 2.807782e+01 1.428016e+01 1.785396e+02 1.987161e-02 0.0312970318 1452.828 5.79908037 2.779599e-04

880 281.4663 2.312239e+01 8.721843e-01 6.813081e+01 4.711673e-02 0.0200196374 1454.773 4.44509363 2.306001e-04

881 281.4667 2.089166e+01 1.352741e-04 2.158501e+01 7.052262e-02 0.0208667219 1454.882 5.16203213 2.800000e-05

882 281.4671 1.715107e+01 6.298433e-05 1.045479e+01 9.986571e-02 0.0231548529 1454.974 4.81483984 2.008001e-05

883 281.4674 1.321580e+01 4.979724e-05 8.217488e+00 4.931736e-02 0.0256918799 1454.890 5.32866049 8.799998e-07

884 281.4678 3.134119e+01 6.836489e-01 2.862911e+01 3.154140e-02 0.0303242430 1455.805 5.44251490 1.130800e-04

885 281.4682 3.392577e+01 4.987913e+00 1.005588e+02 1.795832e-02 0.0369568579 1455.791 6.89777422 5.680000e-05

886 281.4686 3.202208e+01 1.415208e+01 1.478226e+02 1.486193e-02 0.0348780453 1455.125 4.49330759 1.716000e-05

887 281.4689 2.894605e+00 4.968203e+00 1.002073e+02 2.187391e-03 0.0280455370 1454.652 6.19561672 0.000000e+00

888 281.4693 1.300317e-01 4.233861e-01 5.108720e+01 1.618025e-03 0.0229575727 1454.426 3.55016255 0.000000e+00

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890 281.4700 3.002770e-03 3.488364e-02 4.151232e+00 1.520775e-03 0.0068523511 1454.335 1.38521159 0.000000e+00

891 281.4704 1.123958e-03 1.722909e-02 1.603854e+00 1.515854e-03 0.0074100890 1454.328 2.94903755 0.000000e+00

892 281.4708 3.359824e-02 9.928339e-01 2.972950e+01 1.368738e-03 0.0148483543 1454.193 2.61178851 0.000000e+00

893 281.4712 1.243315e-01 1.855348e+01 1.312974e+02 8.243312e-04 0.0224889126 1453.536 2.57204676 0.000000e+00

894 281.4716 8.716270e-02 4.303111e+01 2.235683e+02 4.426740e-04 0.0282675568 1452.369 4.29617500 0.000000e+00

895 281.4720 2.439301e-02 2.546072e+01 1.770636e+02 3.358650e-04 0.0231017191 1451.482 4.05360079 0.000000e+00

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897 281.4727 1.057106e-03 3.526484e-04 4.355714e+01 3.204318e-04 0.0050514643 1450.980 3.33455253 0.000000e+00

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899 281.4735 3.091210e-04 3.019420e-03 1.735775e+01 3.167263e-04 0.0032851852 1450.783 3.19047141 0.000000e+00

900 281.4739 2.931804e-03 2.988900e+00 5.948137e+01 3.038889e-04 0.0122881522 1450.509 3.70118833 0.000000e+00

901 281.4743 1.495373e-02 2.508208e+01 1.891132e+02 2.384114e-04 0.0340705551 1449.571 6.70345354 0.000000e+00

902 281.4747 1.431349e-02 3.928935e+01 2.323474e+02 1.757373e-04 0.0425812416 1448.382 7.05240393 0.000000e+00

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904 281.4755 1.806995e-03 2.189714e+00 9.467795e+01 1.385376e-04 0.0272262301 1447.054 6.34502125 0.000000e+00

905 281.4759 1.052875e-03 7.274172e-04 6.787521e+01 1.339274e-04 0.0275520310 1446.757 7.00523758 0.000000e+00

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907 281.4766 3.563552e-04 4.841366e-03 4.383310e+01 1.294838e-04 0.0146124810 1446.339 4.78421879 0.000000e+00

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910 281.4778 4.764178e-03 4.452234e+01 2.698543e+02 8.319036e-05 0.0536582507 1443.340 10.02475548 0.000000e+00

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912 281.4786 4.246626e+00 3.086048e+00 1.239723e+02 6.194390e-03 0.0294519681 1441.739 8.01429749 2.000000e-06

913 281.4790 8.346745e+00 1.362099e-03 1.039710e+02 8.828906e-03 0.0340678841 1441.288 8.26168537 3.720000e-06

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916 281.4802 8.852901e+00 1.643301e+00 6.635703e+01 1.049156e-02 0.0266981125 1440.288 6.19545174 3.599999e-06

917 281.4806 3.996412e+00 6.101128e+00 1.093669e+02 3.616792e-03 0.0439380743 1439.775 8.89226818 1.000000e-06

918 281.4810 4.929766e+00 9.600204e+00 1.359243e+02 5.033544e-03 0.0497579984 1439.139 8.30860996 2.159999e-06

919 281.4814 1.224440e+00 1.035074e+01 1.291246e+02 1.816176e-03 0.0428091027 1438.525 5.90416288 2.000000e-07

920 281.4818 2.615705e-01 7.852251e-01 6.545860e+01 2.813471e-03 0.0221126247 1438.236 4.99329233 2.000000e-07

921 281.4822 2.938016e-01 2.272647e-04 4.384301e+01 4.086867e-03 0.0149641735 1438.045 4.31242847 2.400000e-07

922 281.4826 5.797297e-01 9.613819e-05 2.824981e+01 1.079710e-02 0.0091156280 1437.929 3.27122545 8.799998e-07

923 281.4830 3.618067e+00 6.348950e-05 2.832135e+01 1.504201e-02 0.0151449218 1437.810 5.61176920 1.960000e-06

924 281.4834 4.913168e+00 1.116582e+00 6.408533e+01 5.676286e-03 0.0330336690 1437.515 7.13161421 1.160000e-06

925 281.4838 1.078301e+00 8.816944e+00 1.306967e+02 9.547579e-04 0.0455618352 1436.899 7.71194696 0.000000e+00

926 281.4842 1.144253e-01 1.688804e+01 1.630106e+02 4.537264e-04 0.0451933704 1436.111 6.26134825 0.000000e+00

927 281.4846 2.795959e-02 1.044936e+01 1.320763e+02 3.313005e-04 0.0367016904 1435.487 6.07535696 0.000000e+00

928 281.4850 4.418761e-03 7.366946e-01 6.037254e+01 3.119523e-04 0.0149412462 1435.220 2.97148156 0.000000e+00

929 281.4854 1.027206e-03 8.720499e-05 3.221384e+01 3.074544e-04 0.0067948797 1435.078 3.78901958 0.000000e+00

930 281.4858 6.521503e-04 2.137585e-05 2.321307e+01 3.045989e-04 0.0054475446 1434.977 2.41300440 0.000000e+00

931 281.4862 7.047339e-04 1.595213e-05 2.153473e+01 3.015130e-04 0.0071522654 1434.883 3.44924927 0.000000e+00

932 281.4866 2.984925e-03 1.140435e+00 4.631630e+01 2.884430e-04 0.0176393464 1434.676 2.92106342 0.000000e+00

933 281.4871 9.934534e-03 1.013871e+01 1.208208e+02 2.449429e-04 0.0306798592 1434.103 4.52115631 0.000000e+00

934 281.4875 1.033464e-02 1.837105e+01 1.559999e+02 1.996909e-04 0.0334464610 1433.339 3.82889628 0.000000e+00

935 281.4879 5.616991e-03 1.047567e+01 1.236267e+02 1.750960e-04 0.0317401029 1432.752 5.89819813 0.000000e+00

936 281.4883 1.576686e-03 8.130410e-01 6.116794e+01 1.681922e-04 0.0207554288 1432.480 4.55192471 0.000000e+00

937 281.4887 9.411055e-04 1.599467e-04 4.238692e+01 1.640714e-04 0.0222450029 1432.294 6.44508410 0.000000e+00

938 281.4891 7.724871e-04 9.762706e-05 3.674469e+01 1.606889e-04 0.0226742271 1432.132 5.19107008 0.000000e+00

939 281.4895 4.072820e-04 4.977066e-05 2.537833e+01 1.589056e-04 0.0164261386 1432.021 4.52903652 0.000000e+00

940 281.4899 1.016882e-03 1.153041e+00 4.652340e+01 1.544530e-04 0.0230496675 1431.812 4.52659655 0.000000e+00

941 281.4903 3.496170e-03 1.127189e+01 1.291827e+02 1.391444e-04 0.0340198725 1431.197 5.09894562 0.000000e+00

942 281.4907 4.347467e-03 2.281467e+01 1.770157e+02 1.201083e-04 0.0350162871 1430.322 4.84715557 0.000000e+00

943 281.4911 2.378069e-03 1.444111e+01 1.356912e+02 1.096955e-04 0.0285369772 1429.664 4.73698473 0.000000e+00

944 281.4916 5.040680e-04 9.261702e-01 5.597629e+01 1.074883e-04 0.0162182003 1429.415 4.89479399 0.000000e+00

945 281.4920 2.217413e-04 2.264139e-04 3.313131e+01 1.065174e-04 0.0127197756 1429.269 4.11713028 0.000000e+00

946 281.4924 1.622102e-04 1.575007e-04 3.050164e+01 1.058071e-04 0.0103821876 1429.136 4.14005661 0.000000e+00

947 281.4928 1.279969e-04 1.011365e-04 2.578839e+01 1.052467e-04 0.0099194618 1429.023 4.34136677 0.000000e+00

948 281.4933 6.537291e-04 2.228219e+00 6.647414e+01 1.023842e-04 0.0225088894 1428.722 6.21446180 0.000000e+00

949 281.4937 2.494728e-03 1.778886e+01 1.764810e+02 9.146062e-05 0.0393708386 1427.871 7.24562454 0.000000e+00

950 281.4941 2.955288e-03 3.224105e+01 2.370740e+02 7.852037e-05 0.0369709060 1426.692 6.21470499 0.000000e+00

951 281.4945 1.349832e+01 2.066131e+01 1.641777e+02 1.392638e-02 0.0216701161 1425.898 4.53226328 6.920002e-06

952 281.4950 1.832551e+01 1.190445e+00 6.248951e+01 2.616812e-02 0.0097961361 1425.639 4.26461124 9.280003e-06

953 281.4954 2.192921e+01 3.092587e-04 4.142382e+01 3.908344e-02 0.0111119403 1425.606 4.43387651 2.296001e-05

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956 281.4966 2.966828e+01 6.648249e-01 3.873304e+01 2.281602e-02 0.0178139657 1425.582 3.75369620 2.348000e-05

957 281.4971 1.451396e+01 5.872053e+00 1.014892e+02 8.041042e-03 0.0281921346 1425.099 5.22139263 4.680000e-06

958 281.4975 1.059535e+01 1.742975e+01 1.510852e+02 7.357505e-03 0.0299403127 1424.362 2.40959311 4.320000e-06

959 281.4979 1.388986e+00 1.236667e+01 1.163368e+02 1.275586e-03 0.0209869072 1423.793 3.38642359 0.000000e+00

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964 281.5000 4.081614e-02 1.659582e+00 5.432836e+01 7.132026e-04 0.0299823750 1422.984 5.20436811 0.000000e+00

965 281.5005 5.946537e-02 1.125177e+01 1.291554e+02 4.528232e-04 0.0337785780 1422.370 5.09715223 0.000000e+00

966 281.5009 3.703013e-02 2.228362e+01 1.784544e+02 2.906803e-04 0.0321508162 1421.491 3.92641902 0.000000e+00

967 281.5013 1.934326e+01 1.280709e+01 1.408498e+02 3.200587e-02 0.0156879406 1422.509 1.03711271 1.687200e-04

968 281.5017 6.340298e+00 2.954317e-01 1.806577e+01 9.394651e-02 0.0024075238 1424.427 1.86854792 1.968400e-04

969 281.5021 8.699344e+00 9.946155e-05 1.456975e+01 1.246558e-01 0.0019028583 1425.246 1.55449927 8.867998e-05

970 281.5026 6.174408e+00 1.223683e-02 6.727524e+00 1.519141e-01 0.0020877060 1425.556 2.39034486 3.495999e-05

971 281.5030 1.572942e+01 4.809568e-05 9.320720e+00 8.304007e-02 0.0084808189 1425.447 4.60763550 0.000000e+00

972 281.5035 1.761299e+01 1.730619e+00 4.380054e+01 5.918529e-03 0.0172329824 1425.170 3.59780598 0.000000e+00

973 281.5039 2.522021e+01 1.079607e+01 1.266579e+02 1.162156e-02 0.0286380574 1424.752 4.16958332 2.772000e-05

974 281.5043 2.590858e+01 1.077517e+01 1.364054e+02 1.441448e-02 0.0287592635 1424.503 5.01456928 4.820001e-05

975 281.5048 2.802761e+00 4.019653e+00 8.210682e+01 2.142098e-03 0.0215399284 1424.114 1.78134692 0.000000e+00

976 281.5052 2.096318e-01 3.554826e-01 2.275693e+01 5.898588e-03 0.0085191764 1424.016 2.14466977 4.400000e-07

977 281.5057 3.282969e+00 1.092721e-04 1.654082e+01 1.911812e-02 0.0120665794 1423.959 5.44479990 2.720000e-06

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979 281.5065 2.249061e+00 3.171816e-05 8.661754e+00 1.017918e-02 0.0281747896 1423.859 5.25551701 3.999999e-08

980 281.5070 1.506580e+00 6.612886e-01 3.481923e+01 3.582359e-03 0.0310066137 1423.697 5.68585396 0.000000e+00

981 281.5074 5.692307e-01 5.980064e+00 1.044887e+02 1.089884e-03 0.0370983817 1423.211 5.06096029 0.000000e+00

982 281.5079 1.184030e-01 1.035612e+01 1.316572e+02 5.714356e-04 0.0348635428 1422.589 4.68800402 0.000000e+00

983 281.5083 3.386162e-02 6.610765e+00 1.080539e+02 4.231664e-04 0.0296750572 1422.087 4.86316061 0.000000e+00

984 281.5087 4.429313e-03 3.771906e-01 4.277096e+01 4.037719e-04 0.0103335846 1421.898 2.16818070 0.000000e+00

985 281.5092 1.808103e+00 6.335655e-05 1.472133e+01 5.514706e-02 0.0043291990 1421.896 1.25608575 6.560002e-06

986 281.5096 8.052548e+00 1.268194e-05 1.120690e+01 9.731711e-02 0.0038563639 1422.084 3.43588281 2.564000e-05

987 281.5100 2.251972e+01 1.169823e-06 2.078959e+01 7.356885e-02 0.0138843469 1424.633 5.92388296 2.676000e-04

988 281.5105 3.484860e+01 4.011196e-01 5.553313e+01 1.898621e-02 0.0288004037 1425.782 7.25952053 1.508400e-04

989 281.5109 7.375631e+00 2.816128e+00 1.131952e+02 5.183384e-03 0.0392667204 1425.260 7.68387794 1.760000e-06

990 281.5114 1.605745e+01 7.227134e+00 1.378137e+02 9.410561e-03 0.0411982238 1424.631 7.60821486 7.080001e-06

991 281.5118 2.262976e+01 4.524716e+00 1.014723e+02 2.061265e-02 0.0210207384 1424.500 4.12838221 4.087999e-05

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993 281.5127 1.494774e+01 7.104017e-05 2.937868e+01 6.851926e-02 0.0097424192 1426.458 3.48514390 1.036000e-04

994 281.5131 1.674545e+01 4.519771e-05 2.191684e+01 7.526679e-02 0.0092626316 1426.718 3.87618828 4.084000e-05

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996 281.5140 1.808512e+00 6.416820e-01 5.020595e+01 2.520011e-03 0.0443253405 1426.299 9.67514992 0.000000e+00

997 281.5144 3.316970e-01 1.778931e+00 7.722161e+01 1.067618e-03 0.0528507940 1425.951 9.73421097 0.000000e+00

998 281.5149 2.254559e+01 2.660974e+00 9.770646e+01 1.270863e-02 0.0506153256 1425.912 8.82963657 4.731999e-05

999 281.5154 2.603544e+00 2.736140e+00 1.013486e+02 1.308564e-03 0.0459621660 1425.444 8.22123528 0.000000e+00

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1002 281.5167 1.339582e-02 5.104683e-06 2.643060e+01 8.113653e-04 0.0200316403 1424.925 4.64224958 0.000000e+00

1003 281.5172 7.916319e-03 1.595213e-07 1.956178e+01 7.767023e-04 0.0176620428 1424.839 4.96682835 0.000000e+00

1004 281.5176 2.196769e-02 5.610515e-01 4.356299e+01 6.805129e-04 0.0263774376 1424.645 6.01347542 0.000000e+00

1005 281.5181 4.750945e-02 5.890497e+00 1.135555e+02 4.724846e-04 0.0371732600 1424.122 5.45070267 0.000000e+00

1006 281.5186 3.077557e-02 1.132965e+01 1.406808e+02 3.377284e-04 0.0342599191 1423.456 3.90897989 0.000000e+00

1007 281.5190 1.114134e-02 6.215920e+00 1.011317e+02 2.889441e-04 0.0243898705 1422.986 2.82455587 0.000000e+00

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1012 281.5213 3.137224e-03 5.963751e-01 4.807565e+01 2.642704e-04 0.0237265471 1422.405 5.18824911 0.000000e+00

1013 281.5217 9.452298e-03 7.052311e+00 1.231781e+02 2.228818e-04 0.0352746248 1421.835 5.93474579 0.000000e+00

1014 281.5222 9.831687e-03 1.339330e+01 1.575975e+02 1.798321e-04 0.0389417335 1421.087 6.31767178 0.000000e+00

1015 281.5226 1.990047e+01 5.469469e+00 1.479483e+02 1.905766e-02 0.0304988716 1422.752 5.34965086 2.326000e-04

1016 281.5231 1.861715e+01 2.124548e-01 6.042453e+01 3.483424e-02 0.0172365848 1422.830 5.12671041 4.044000e-05

1017 281.5236 1.975770e+01 4.615483e-05 3.578189e+01 4.003690e-02 0.0203427523 1423.971 5.99804020 1.328800e-04

1018 281.5240 1.804619e+01 2.988366e-05 2.846220e+01 5.035388e-02 0.0200495329 1424.361 4.38648796 5.668002e-05

1019 281.5245 1.767007e+01 1.914256e-05 1.890284e+01 5.681725e-02 0.0213397741 1424.311 5.88239813 1.028000e-05

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1023 281.5263 2.227974e+01 4.584706e+00 1.364309e+02 1.796716e-02 0.0341419317 1425.938 6.91071749 3.069201e-04

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1026 281.5276 1.222908e+01 1.789298e-05 9.578594e+00 8.881088e-02 0.0203491878 1429.708 3.29905391 1.164000e-04

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1039 281.5337 1.972816e+01 4.155889e+00 8.561462e+01 2.512727e-02 0.0215352755 1432.897 2.45897365 4.935999e-05

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1056 281.5417 7.953893e+00 3.543207e-02 1.242081e+01 6.923497e-02 0.0334653966 1440.554 7.09382248 1.132400e-04

1057 281.5422 7.158566e+00 1.599201e-05 3.949875e+00 9.593514e-02 0.0316863395 1440.807 6.42114115 2.896000e-05

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1065 281.5460 -3.558556e-03 2.474862e-02 7.739337e+00 9.462714e-04 0.0118484898 1439.779 6.42114115 0.000000e+00

1066 281.5465 -5.194824e-02 5.169408e-02 3.941135e+00 1.173736e-03 0.0108027570 1439.762 4.02757025 0.000000e+00

1067 281.5470 -3.879356e-01 1.412942e-02 1.645904e+00 2.872379e-03 0.0066235657 1439.757 3.59184909 0.000000e+00

1068 281.5474 -6.319857e-02 6.714671e-01 1.994394e+01 3.149105e-03 0.0127367266 1439.667 4.67394876 0.000000e+00

1069 281.5479 4.737842e-01 8.102960e+00 1.250045e+02 1.074558e-03 0.0333036818 1439.082 5.79220629 0.000000e+00

1070 281.5484 1.290508e-01 1.331136e+01 1.752959e+02 5.094866e-04 0.0414627083 1438.255 8.35942078 0.000000e+00

1071 281.5489 3.169414e-02 5.603445e+00 1.225897e+02 3.707082e-04 0.0440119393 1437.694 8.38901615 0.000000e+00

1072 281.5493 5.222838e-03 1.499773e-01 4.486632e+01 3.478391e-04 0.0264050663 1437.496 4.40622616 0.000000e+00

1073 281.5498 8.457056e-04 4.452972e-05 1.218740e+01 3.441361e-04 0.0147485556 1437.443 6.42114115 0.000000e+00

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1075 281.5508 -5.516489e-02 1.551711e-02 5.389258e+00 7.545814e-04 0.0132864239 1437.401 3.59184909 0.000000e+00

1076 281.5512 -5.622125e-02 1.006503e+00 3.451570e+01 1.000756e-03 0.0111478055 1437.246 3.54645681 0.000000e+00

1077 281.5517 8.934209e-02 9.844804e+00 1.459540e+02 6.095560e-04 0.0264116377 1436.563 4.20808649 0.000000e+00

1078 281.5522 5.100560e-02 1.773704e+01 1.876085e+02 3.862192e-04 0.0289270822 1435.663 4.17274618 0.000000e+00

1079 281.5526 1.478756e-02 8.026219e+00 1.235466e+02 3.214693e-04 0.0218826365 1435.088 3.59778070 0.000000e+00

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1081 281.5536 1.003643e-03 4.455962e-05 2.732786e+01 3.109855e-04 0.0076320730 1434.807 3.33980441 0.000000e+00

1082 281.5540 4.442026e-04 5.211030e-06 1.582024e+01 3.090406e-04 0.0043562413 1434.737 2.22074080 0.000000e+00

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1089 281.5574 8.127902e-01 4.833496e-05 2.418394e+01 5.694276e-03 0.0165677387 1432.296 5.19336319 0.000000e+00

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1104 281.5648 2.026158e-01 2.370945e-02 8.632799e+00 5.731110e-03 0.0146901337 1452.143 2.67580318 0.000000e+00

1105 281.5652 1.350375e-02 4.734952e-02 1.152084e+00 5.671982e-03 0.0103154760 1452.137 3.23518872 0.000000e+00

1106 281.5658 -7.879385e-03 5.563949e-02 6.078078e-02 5.706483e-03 0.0030279548 1452.136 0.78242779 0.000000e+00

1107 281.5663 -5.795620e-02 3.010025e-03 3.287759e-03 5.960255e-03 0.0030048329 1452.137 3.16283846 0.000000e+00

1108 281.5667 3.027088e-01 1.312197e-01 1.332063e+01 4.634792e-03 0.0195016321 1452.077 5.58364677 0.000000e+00

1109 281.5672 7.126393e-01 3.347355e+00 8.718237e+01 1.514376e-03 0.0373862274 1451.677 7.46988344 0.000000e+00

1110 281.5677 1.890883e-01 8.142629e+00 1.422315e+02 6.864201e-04 0.0420051366 1451.018 7.67335367 0.000000e+00

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1112 281.5687 6.928756e+00 7.427377e-02 2.828307e+01 5.716927e-02 0.0140456790 1452.036 2.87223625 1.123600e-04

1113 281.5692 5.819992e+00 3.331337e-05 1.106697e+01 5.355066e-02 0.0111965211 1451.993 4.35454130 2.919999e-06

1114 281.5697 6.779577e+00 1.292123e-05 7.425928e+00 7.866993e-02 0.0202101525 1452.758 4.91310310 8.000002e-05

1115 281.5702 8.107853e+00 2.791623e-06 6.776597e+00 8.995041e-02 0.0204197504 1453.189 4.84208965 4.800001e-05

1116 281.5706 2.329112e+01 1.092244e-01 2.299956e+01 3.936699e-02 0.0219986122 1454.049 4.77225542 1.032400e-04

1117 281.5711 2.260988e+01 6.376211e-01 5.879347e+01 1.755193e-02 0.0294056758 1454.102 5.18735075 3.951999e-05

1118 281.5716 1.792631e+01 7.489023e-01 6.162565e+01 1.877595e-02 0.0305040721 1454.159 4.72696447 3.927999e-05

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1121 281.5731 1.183589e+01 -1.063476e-07 1.739957e+01 5.355097e-02 0.0230112839 1455.865 5.32885695 8.551998e-05

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1123 281.5741 9.532392e+00 1.063476e-07 1.335658e+01 7.316043e-02 0.0146372216 1458.076 3.01289010 1.134800e-04

1124 281.5746 1.762733e+01 1.063476e-07 2.135221e+01 4.895516e-02 0.0140777864 1459.059 2.60499358 1.124800e-04

1125 281.5751 2.201567e+01 3.657185e-01 4.142179e+01 2.371949e-02 0.0164765865 1459.246 0.44605818 4.504000e-05

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1131 281.5780 7.132273e+00 2.658689e-08 1.066192e+01 8.485609e-02 0.0090268711 1459.029 3.16268659 1.276000e-05

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1133 281.5790 1.147965e+01 4.451809e-01 6.331900e+01 3.918013e-03 0.0251239538 1458.652 5.27903605 0.000000e+00

1134 281.5795 5.298834e-01 1.390305e+00 8.913029e+01 1.597826e-03 0.0277193878 1458.253 5.16651869 0.000000e+00

1135 281.5800 1.125329e-01 6.048364e-01 6.934241e+01 1.105082e-03 0.0280155856 1457.946 6.30594683 0.000000e+00

1136 281.5804 2.496444e-02 8.890550e-03 2.940883e+01 9.957704e-04 0.0229092836 1457.817 5.16047144 0.000000e+00

1137 281.5809 8.481414e-03 5.317378e-08 1.210307e+01 9.586331e-04 0.0229663458 1457.764 6.10779524 0.000000e+00

1138 281.5814 2.842912e-03 3.451218e-03 3.863202e+00 9.461849e-04 0.0282841008 1457.747 6.92506409 0.000000e+00

1139 281.5819 -2.755862e-01 3.525594e-03 3.848396e-03 2.152887e-03 0.0318563692 1457.749 7.98545980 0.000000e+00

1140 281.5824 -3.590697e-02 3.765209e-02 9.258512e+00 2.310112e-03 0.0316748619 1457.708 6.09147930 0.000000e+00

1141 281.5829 1.618910e-01 1.020160e+00 4.907939e+01 1.601244e-03 0.0262468811 1457.488 4.02631330 0.000000e+00

1142 281.5834 1.458570e-01 5.128526e+00 1.064067e+02 9.625834e-04 0.0223216098 1456.999 5.35347319 0.000000e+00

1143 281.5839 5.549893e-01 3.070385e+00 9.675381e+01 3.644699e-03 0.0277385097 1456.565 6.68257046 4.800001e-07

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1146 281.5854 3.942722e-01 3.190427e-07 6.384923e+00 1.485579e-02 0.0069411178 1456.432 3.26659918 4.800001e-07

1147 281.5858 3.715330e-01 -1.994017e-08 3.485950e+00 1.792167e-02 0.0085940240 1456.420 3.72788596 4.800001e-07

1148 281.5863 3.039478e+00 1.501210e-01 2.095154e+01 9.314797e-03 0.0148266861 1456.319 4.45252848 4.800001e-07

1149 281.5868 2.472951e+00 3.325771e+00 8.932133e+01 3.515486e-03 0.0248545334 1455.907 2.84761882 4.800001e-07

1150 281.5873 1.428965e+01 7.054257e+00 1.122018e+02 1.281360e-02 0.0220852047 1455.398 1.94689858 7.000000e-06

1151 281.5878 2.298441e+00 2.456701e+00 7.137566e+01 2.749478e-03 0.0168887060 1455.064 2.44880342 0.000000e+00

1152 281.5883 5.647388e-02 2.981789e-02 2.058853e+01 2.502197e-03 0.0065007936 1454.974 3.24719691 0.000000e+00

1153 281.5888 3.814511e-02 1.595213e-07 1.374995e+01 2.335172e-03 0.0109493881 1454.914 4.64584446 0.000000e+00

1154 281.5893 2.780177e-02 2.658689e-07 9.625686e+00 2.213437e-03 0.0140381744 1454.872 4.20310020 0.000000e+00

1155 281.5898 2.354526e-02 1.063476e-07 7.302536e+00 2.110339e-03 0.0196298324 1454.840 6.30533123 0.000000e+00

1156 281.5902 7.238215e-02 3.470924e-02 1.933082e+01 1.793401e-03 0.0291028004 1454.754 7.05768490 0.000000e+00

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1158 281.5912 6.114687e-02 1.698036e+00 6.887290e+01 8.425887e-04 0.0243179332 1454.137 2.64569974 0.000000e+00

1159 281.5917 1.020815e+01 6.406756e-01 4.275158e+01 2.869409e-02 0.0205268264 1454.369 5.48632574 4.480000e-05

1160 281.5922 7.815079e+00 1.575332e-02 1.665724e+01 5.533262e-02 0.0190530438 1455.432 3.93324804 1.133200e-04

1161 281.5927 7.039278e+00 8.082414e-06 8.834304e+00 7.302323e-02 0.0165952370 1456.317 4.12352991 9.255999e-05

1162 281.5932 8.529332e+00 4.333663e-06 8.314325e+00 8.047609e-02 0.0222116727 1457.718 5.72622681 1.440000e-04

1163 281.5937 6.425120e+00 6.646722e-08 5.293818e+00 9.149798e-02 0.0213512983 1458.392 4.22147942 7.040003e-05

1164 281.5942 1.598704e+01 2.549148e-02 1.218045e+01 6.097670e-02 0.0222987738 1459.075 4.85821629 7.820002e-05

1165 281.5947 2.222805e+01 7.883192e-02 3.929778e+01 2.657349e-02 0.0346769653 1462.706 8.02501869 3.945999e-04

1166 281.5952 1.586002e+01 1.170461e-02 4.493979e+01 2.624162e-02 0.0396740958 1466.753 7.23384380 4.477200e-04

1167 281.5956 4.411001e+00 3.190427e-07 2.572033e+01 6.927279e-03 0.0365996100 1466.621 7.27782202 0.000000e+00

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1172 281.5981 1.621611e-01 4.222487e-02 1.096940e+01 4.201150e-03 0.0106800748 1466.497 1.57967544 0.000000e+00

1173 281.5986 4.622737e-01 1.584212e+00 5.423569e+01 2.177004e-03 0.0178902317 1466.250 2.15183806 0.000000e+00

1174 281.5991 2.485201e-01 5.496799e+00 1.057157e+02 1.088816e-03 0.0215743110 1465.762 2.51140928 0.000000e+00

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1181 281.6025 1.759586e+00 4.553482e+00 9.929532e+01 1.863867e-03 0.0212546811 1464.867 2.60078859 0.000000e+00

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1187 281.6054 2.567730e-03 5.317377e-07 1.334967e+01 6.246242e-04 0.0108653083 1463.573 4.33680916 0.000000e+00

1188 281.6059 9.131741e-03 1.830605e-01 3.182967e+01 5.846391e-04 0.0174728651 1463.433 6.13276625 0.000000e+00

1189 281.6064 3.509998e-02 4.245021e+00 1.198454e+02 4.309477e-04 0.0324071869 1462.890 6.33296204 0.000000e+00

1190 281.6069 2.869682e-02 9.338735e+00 1.705813e+02 3.052937e-04 0.0344073139 1462.102 6.60465240 0.000000e+00

1191 281.6074 8.622826e-03 3.867620e+00 1.021342e+02 2.675371e-04 0.0232737046 1461.638 3.53265238 0.000000e+00

1192 281.6079 7.305624e-02 2.907377e-02 2.051431e+01 5.044702e-03 0.0085754162 1461.553 4.32003784 4.800001e-07

1193 281.6084 2.652495e+00 1.464938e-05 1.123420e+01 4.657495e-02 0.0120390989 1461.556 4.54489326 5.959999e-06

1194 281.6089 3.125462e+00 1.342638e-05 8.334907e+00 4.651494e-02 0.0088442871 1461.524 3.04408264 1.760000e-06

1195 281.6093 7.051557e+00 1.451644e-05 1.043590e+01 6.227116e-02 0.0113902474 1461.772 6.33916903 3.124000e-05

1196 281.6099 2.241901e+01 3.405981e-01 3.544650e+01 1.881546e-02 0.0259951577 1461.877 7.52894974 3.455999e-05

1197 281.6104 1.321627e+01 4.710465e+00 1.202149e+02 7.129327e-03 0.0376382060 1461.320 7.63700104 4.479999e-06

1198 281.6108 9.478758e+00 8.729556e+00 1.598887e+02 6.672353e-03 0.0385296680 1460.582 7.23546743 3.920002e-06

1199 281.6113 1.186405e+00 3.375124e+00 9.751150e+01 1.477474e-03 0.0263256263 1460.136 3.87157536 0.000000e+00

1200 281.6118 1.503170e-02 2.974443e-02 1.746902e+01 1.411655e-03 0.0060354727 1460.059 2.40923810 0.000000e+00

1201 281.6123 1.158157e-02 1.938184e-05 1.354516e+01 1.360943e-03 0.0066679097 1459.999 2.62341309 0.000000e+00

1202 281.6128 5.101108e-03 1.860223e-03 6.833090e+00 1.338607e-03 0.0040751635 1459.969 1.28700161 0.000000e+00

1203 281.6133 2.099935e-04 1.940025e-02 5.028643e-01 1.337687e-03 0.0012488252 1459.966 2.22352290 0.000000e+00

1204 281.6138 1.787535e-02 2.153712e-01 1.717077e+01 1.259417e-03 0.0068323296 1459.890 3.73965216 0.000000e+00

1205 281.6143 1.208582e-01 5.004790e+00 1.180240e+02 7.302185e-04 0.0262111593 1459.351 5.73593426 0.000000e+00

1206 281.6147 7.042174e-02 1.064273e+01 1.766100e+02 4.218647e-04 0.0311030764 1458.530 5.96863890 0.000000e+00

1207 281.6152 1.711595e-02 4.573967e+00 1.113457e+02 3.469196e-04 0.0219647046 1458.023 4.24319220 0.000000e+00

1208 281.6157 1.337958e-03 4.154031e-02 2.684782e+01 3.410611e-04 0.0069270912 1457.905 3.65329695 0.000000e+00

1209 281.6162 4.784246e-04 2.105682e-05 1.302950e+01 3.389662e-04 0.0042413203 1457.848 3.58038855 0.000000e+00

1210 281.6167 6.555365e-04 1.738783e-05 1.504084e+01 3.360958e-04 0.0059054284 1457.782 4.96220732 0.000000e+00

1211 281.6172 2.264713e-03 3.541373e-05 2.732659e+01 3.261794e-04 0.0187411308 1457.662 7.33534908 0.000000e+00

1212 281.6177 5.973347e-03 3.740725e-01 4.989943e+01 3.000241e-04 0.0333419964 1457.441 9.16360378 0.000000e+00

1213 281.6182 1.375592e-02 4.022768e+00 1.275348e+02 2.397914e-04 0.0413950533 1456.865 7.95337629 0.000000e+00

1214 281.6187 1.113561e-02 7.570529e+00 1.648976e+02 1.910321e-04 0.0369800888 1456.110 6.43266439 0.000000e+00

1215 281.6192 3.792942e-03 3.032989e+00 1.023286e+02 1.744241e-04 0.0231693778 1455.648 3.63361359 0.000000e+00

1216 281.6197 2.779793e-04 2.051630e-02 2.443424e+01 1.732069e-04 0.0051519223 1455.541 2.82548833 0.000000e+00

1217 281.6201 7.309018e-05 2.392820e-07 9.281878e+00 1.728869e-04 0.0022286919 1455.500 1.78496170 0.000000e+00

1218 281.6206 4.357548e-05 1.595213e-07 5.887865e+00 1.726960e-04 0.0019062251 1455.474 2.46041656 0.000000e+00

1219 281.6211 3.863809e-05 7.976067e-08 5.153588e+00 1.725268e-04 0.0020481809 1455.451 2.19724751 0.000000e+00

1220 281.6216 1.790490e-04 1.309694e-01 1.345582e+01 1.717428e-04 0.0029847538 1455.391 1.35461104 0.000000e+00

1221 281.6221 2.482794e-03 4.718177e+00 9.132211e+01 1.608715e-04 0.0150621543 1454.970 1.44521117 0.000000e+00

1222 281.6226 3.406002e-03 1.042876e+01 1.247219e+02 1.459577e-04 0.0165755097 1454.378 0.80188632 0.000000e+00

1223 281.6231 1.487283e-03 3.767298e+00 7.360718e+01 1.394454e-04 0.0124505246 1454.040 0.73614895 0.000000e+00

1224 281.6236 4.342784e-05 2.048653e-03 9.273108e+00 1.392552e-04 0.0012726450 1453.999 1.54046333 0.000000e+00

1225 281.6241 6.607707e-05 3.988033e-07 1.270728e+01 1.389659e-04 0.0023603623 1453.945 3.27368808 0.000000e+00

1226 281.6245 1.128106e-04 5.317378e-08 1.797981e+01 1.384719e-04 0.0041103172 1453.866 3.18547559 0.000000e+00

1227 281.6250 3.666634e-05 -9.305412e-08 7.169294e+00 1.383114e-04 0.0022934985 1453.835 1.92442441 0.000000e+00

1228 281.6255 8.720320e-05 1.183118e-01 1.098789e+01 1.379296e-04 0.0021484690 1453.786 2.03872919 0.000000e+00

1229 281.6260 2.156373e-03 3.355204e+00 1.062424e+02 1.284875e-04 0.0241626259 1453.306 6.82077408 0.000000e+00

1230 281.6265 3.063682e-03 5.279747e+00 1.388383e+02 1.150727e-04 0.0360564180 1452.675 6.93766308 0.000000e+00

1231 281.6270 1.358342e-03 1.715716e+00 8.452113e+01 1.091249e-04 0.0287526641 1452.297 4.96542740 0.000000e+00

1232 281.6274 2.715157e-04 8.926175e-03 3.228645e+01 1.079360e-04 0.0143686784 1452.155 4.09194899 0.000000e+00

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1235 281.6288 1.292154e-05 3.988033e-08 3.718753e+00 1.069458e-04 0.0029407444 1452.004 1.82914090 0.000000e+00

1236 281.6293 1.051346e-04 1.661680e-07 1.307898e+01 1.064855e-04 0.0072974307 1451.947 2.88320541 0.000000e+00

1237 281.6298 8.946788e-04 1.098925e+00 7.342200e+01 1.025680e-04 0.0232619587 1451.621 4.07088470 0.000000e+00

1238 281.6302 1.392968e-03 2.792383e+00 1.108600e+02 9.646862e-05 0.0280209109 1451.124 4.86375523 0.000000e+00

1239 281.6307 7.780814e-04 8.996680e-01 7.472417e+01 9.306164e-05 0.0249401946 1450.793 5.06719494 0.000000e+00

1240 281.6312 1.842642e-04 -3.190427e-07 2.900934e+01 9.225479e-05 0.0150531223 1450.666 4.58046055 0.000000e+00

1241 281.6317 1.441726e-04 -2.126951e-07 2.073604e+01 9.162352e-05 0.0184421130 1450.575 6.21356678 0.000000e+00

1242 281.6321 1.386030e-04 -5.317378e-08 1.772748e+01 9.101663e-05 0.0222817454 1450.498 6.08074713 0.000000e+00

1243 281.6326 1.217337e-04 0.000000e+00 1.489295e+01 9.048360e-05 0.0243276637 1450.433 6.88478851 0.000000e+00

1244 281.6331 3.116110e-04 6.523093e-03 2.986451e+01 8.911915e-05 0.0317396484 1450.303 8.47604179 0.000000e+00

1245 281.6336 1.121065e-03 1.608108e+00 9.489451e+01 8.421036e-05 0.0399735160 1449.880 7.89483833 0.000000e+00

1246 281.6340 1.460000e-03 3.927294e+00 1.329679e+02 7.781749e-05 0.0398097299 1449.280 8.25623512 0.000000e+00

1247 281.6345 8.066184e-04 1.671023e+00 9.268584e+01 7.428557e-05 0.0336683691 1448.867 7.10617971 0.000000e+00

1248 281.6350 2.486704e-04 1.213819e-02 4.375589e+01 7.319674e-05 0.0234178081 1448.676 6.50259161 0.000000e+00

1249 281.6355 1.712676e-04 7.444330e-07 3.239259e+01 7.244680e-05 0.0228166934 1448.534 6.71055174 0.000000e+00

1250 281.6359 1.187269e-04 7.444330e-07 2.453624e+01 7.192694e-05 0.0207443852 1448.426 5.67498493 0.000000e+00

1251 281.6364 6.721188e-05 -5.317378e-08 1.679531e+01 7.163263e-05 0.0163102262 1448.353 5.12306309 0.000000e+00

1252 281.6369 1.412158e-04 4.212852e-02 2.728101e+01 7.101429e-05 0.0207541790 1448.233 6.80351305 0.000000e+00

1253 281.6374 6.628296e-04 1.904403e+00 9.300156e+01 6.811199e-05 0.0344475806 1447.817 7.34411764 0.000000e+00

1254 281.6378 9.873147e-04 4.794818e+00 1.346777e+02 6.378885e-05 0.0376658998 1447.207 7.95581150 0.000000e+00

1255 281.6383 5.345956e-04 2.101610e+00 8.806316e+01 6.144804e-05 0.0325259082 1446.812 7.08320904 0.000000e+00

1256 281.6388 1.515669e-04 1.820489e-02 3.581505e+01 6.078436e-05 0.0253852066 1446.655 7.29594517 0.000000e+00

1257 281.6393 1.145481e-04 3.137253e-05 2.639396e+01 6.028280e-05 0.0278911497 1446.539 7.89515162 0.000000e+00

1258 281.6397 9.791203e-05 2.212029e-05 2.376606e+01 5.985407e-05 0.0266111251 1446.434 6.48914289 0.000000e+00

1259 281.6402 6.307736e-05 1.090063e-05 1.867008e+01 5.957787e-05 0.0203478504 1446.352 5.54321623 0.000000e+00

1260 281.6407 8.935260e-05 1.436996e-01 2.657141e+01 5.918663e-05 0.0186262336 1446.234 5.65052223 0.000000e+00

1261 281.6411 4.151464e-04 3.174764e+00 1.007311e+02 5.736884e-05 0.0246778745 1445.779 3.72628808 0.000000e+00

1262 281.6416 5.812400e-04 7.823350e+00 1.461213e+02 5.482378e-05 0.0220639501 1445.104 3.57293868 0.000000e+00

1263 281.6421 2.049895e-04 3.017762e+00 7.066662e+01 5.392619e-05 0.0112688309 1444.782 1.70600390 0.000000e+00

1264 281.6425 3.930559e-05 5.670105e-03 2.113268e+01 5.375408e-05 0.0090677952 1444.690 6.60756826 0.000000e+00

1265 281.6430 1.378362e-04 6.859418e-05 3.695883e+01 5.315054e-05 0.0305457655 1444.528 9.68337250 0.000000e+00

1266 281.6435 1.009103e-04 3.392487e-05 3.055247e+01 5.270868e-05 0.0259488598 1444.395 4.68485785 0.000000e+00

1267 281.6440 5.464675e-05 2.233299e-06 2.387534e+01 5.246939e-05 0.0164396111 1444.290 5.68175936 0.000000e+00

1268 281.6444 6.661173e-05 6.481554e-02 3.164794e+01 5.217771e-05 0.0136417365 1444.151 2.85558438 0.000000e+00

1269 281.6449 2.571090e-04 2.449296e+00 8.817068e+01 5.105191e-05 0.0172252767 1443.755 1.59121168 0.000000e+00

1270 281.6454 3.646871e-04 5.635554e+00 1.175435e+02 4.945506e-05 0.0172899999 1443.216 1.66343617 0.000000e+00

1271 281.6459 1.612264e-04 1.886059e+00 6.746388e+01 4.874911e-05 0.0115559781 1442.912 1.34302688 0.000000e+00

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1275 281.6478 1.921227e-05 2.658689e-07 1.917033e+01 4.856446e-05 0.0054049958 1442.677 4.74831963 0.000000e+00

1276 281.6482 6.435769e-05 8.537358e-02 3.862715e+01 4.828264e-05 0.0115336655 1442.506 5.18207884 0.000000e+00

1277 281.6487 3.236869e-04 2.309386e+00 1.073805e+02 4.686531e-05 0.0255000591 1442.026 6.41244745 0.000000e+00

1278 281.6492 5.174694e-04 6.570618e+00 1.516062e+02 4.459948e-05 0.0295727346 1441.333 6.12698603 0.000000e+00

1279 281.6497 2.179055e-04 2.684340e+00 8.855291e+01 4.364535e-05 0.0183759425 1440.933 4.08350658 0.000000e+00

1280 281.6501 2.579899e-05 1.326016e-02 2.425843e+01 4.353239e-05 0.0079987021 1440.827 4.60356140 0.000000e+00

1281 281.6506 1.708185e-05 2.834162e-05 1.661095e+01 4.345759e-05 0.0081231212 1440.754 4.28922033 0.000000e+00

1282 281.6511 7.487047e-06 1.137919e-05 9.106801e+00 4.342481e-05 0.0042732353 1440.714 2.14908862 0.000000e+00

1283 281.6516 1.260212e-06 7.510798e-07 2.319213e+00 4.341930e-05 0.0020351615 1440.704 2.55586648 0.000000e+00

1284 281.6520 4.655677e-06 9.108841e-02 7.415920e+00 4.339891e-05 0.0020748766 1440.671 1.97708452 0.000000e+00

1285 281.6525 2.042776e-04 4.133956e+00 1.053003e+02 4.250445e-05 0.0155590596 1440.192 3.68172359 0.000000e+00

1286 281.6530 2.904721e-04 5.773468e+00 1.359646e+02 4.123257e-05 0.0184998773 1439.571 4.47601128 0.000000e+00

1287 281.6534 5.472288e-02 1.578381e+00 7.757513e+01 1.945374e-03 0.0106393434 1439.227 3.06122088 2.000000e-07

1288 281.6539 3.717786e-02 9.033748e-03 1.569067e+01 3.894660e-03 0.0026349782 1439.160 1.53088641 2.000000e-07

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1290 281.6548 1.282783e-01 1.222956e-02 4.599763e+00 1.046524e-02 0.0031312259 1439.128 1.73782825 3.599999e-07

1291 281.6553 -2.482855e-02 4.952941e-02 1.383345e-01 1.215009e-02 0.0072360002 1439.129 5.01341343 1.600000e-07

1292 281.6558 9.666364e-01 1.011303e-01 1.096906e+01 7.917508e-03 0.0129123172 1439.077 3.48333693 0.000000e+00

1293 281.6563 1.724313e+00 1.866308e+00 7.745126e+01 2.457413e-03 0.0215637106 1438.724 4.32060289 2.000000e-07

1294 281.6567 5.812924e-01 4.404570e+00 9.981594e+01 2.037782e-03 0.0170660354 1438.268 0.24753538 2.000000e-07

1295 281.6572 1.513250e-01 1.428236e+00 5.100463e+01 1.375179e-03 0.0104626408 1438.038 0.71262330 0.000000e+00

1296 281.6577 1.591879e-02 6.115397e-03 1.475233e+01 1.305476e-03 0.0050257617 1437.974 1.45571482 0.000000e+00

1297 281.6582 1.277462e-03 4.172480e-06 2.774942e+00 1.299883e-03 0.0010310834 1437.962 1.05195343 0.000000e+00

1298 281.6586 -7.247419e-05 2.023508e-02 2.031067e-01 1.300200e-03 0.0010250286 1437.961 1.57235777 0.000000e+00

1299 281.6591 -5.425797e-04 4.911610e-03 5.249071e-03 1.302576e-03 0.0010473171 1437.961 0.72497660 0.000000e+00

1300 281.6596 -1.163824e-02 5.163927e-02 3.626024e+00 1.353536e-03 0.0019071918 1437.945 0.78715634 0.000000e+00

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1302 281.6605 8.078800e-02 5.775023e+00 1.195440e+02 5.649201e-04 0.0175631121 1437.080 2.12802267 0.000000e+00

1303 281.6609 1.897229e-02 1.983296e+00 6.483983e+01 4.818467e-04 0.0120176226 1436.787 2.08228850 0.000000e+00

1304 281.6614 4.836629e-04 2.399852e-03 6.487311e+00 4.797289e-04 0.0022661542 1436.759 2.50088000 0.000000e+00

1305 281.6619 3.271101e-04 4.327017e-06 3.605507e+00 4.782965e-04 0.0041257776 1436.742 2.71600008 0.000000e+00

1306 281.6623 -4.544136e-03 2.915633e-02 1.568163e-01 4.981938e-04 0.0023313581 1436.742 1.56115651 0.000000e+00

1307 281.6628 -3.343658e-02 0.000000e+00 0.000000e+00 6.446016e-04 0.0013666875 1436.742 1.59412682 0.000000e+00

1308 281.6632 -2.393230e-02 5.666045e-02 4.667088e+00 7.493933e-04 0.0021587948 1436.722 1.43922937 0.000000e+00

1309 281.6637 3.964006e-02 2.758776e+00 8.226971e+01 5.758223e-04 0.0148217948 1436.350 2.42431760 0.000000e+00

1310 281.6642 4.125741e-02 6.222822e+00 1.347099e+02 3.951696e-04 0.0186502021 1435.733 3.05264950 0.000000e+00

1311 281.6646 7.147400e+00 2.041418e+00 7.516220e+01 2.359678e-02 0.0124894017 1435.479 2.84192348 1.092000e-05

1312 281.6651 3.898710e+00 3.144112e-03 1.838203e+01 4.749653e-02 0.0044865375 1435.529 3.82834840 1.404001e-05

1313 281.6655 6.992050e+00 1.387835e-05 1.438090e+01 5.204217e-02 0.0124638835 1435.697 5.81311131 2.500001e-05

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1315 281.6664 9.558640e+00 7.816543e-06 1.562194e+01 4.019494e-02 0.0225214530 1436.034 5.80748749 3.244000e-05

1316 281.6669 1.323019e+01 3.059507e-02 2.328288e+01 2.440831e-02 0.0251159221 1436.170 6.50501347 2.823999e-05

1317 281.6673 6.159855e+00 9.217443e-01 7.917850e+01 2.752319e-03 0.0341275521 1435.798 7.89573622 5.200000e-07

1318 281.6678 3.640956e+00 2.154099e+00 1.123142e+02 4.441739e-03 0.0355123244 1435.299 6.79592085 1.680000e-06

1319 281.6682 6.917715e-01 7.351756e-01 7.049822e+01 1.412697e-03 0.0223851055 1434.985 3.01551914 0.000000e+00

1320 281.6687 4.615775e-02 4.630373e-04 3.387114e+01 1.210587e-03 0.0110682799 1434.836 3.32582760 0.000000e+00

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1322 281.6696 1.365869e-02 2.658689e-07 1.737804e+01 1.074187e-03 0.0090891495 1434.671 3.68840766 0.000000e+00

1323 281.6701 8.055373e-03 1.595213e-07 1.244771e+01 1.038916e-03 0.0078036929 1434.617 3.67202282 0.000000e+00

1324 281.6705 1.021582e-02 6.002256e-04 1.585333e+01 9.941836e-04 0.0065840241 1434.548 2.67721033 0.000000e+00

1325 281.6710 6.745292e-02 1.083808e+00 7.819749e+01 6.988292e-04 0.0185614862 1434.201 3.60207462 0.000000e+00

1326 281.6714 5.389209e-02 2.777798e+00 1.148533e+02 4.628533e-04 0.0215064790 1433.686 3.69438505 0.000000e+00

1327 281.6719 1.399401e-02 8.614756e-01 6.589913e+01 4.015780e-04 0.0136547424 1433.393 2.09483528 0.000000e+00

1328 281.6724 2.200780e-03 5.317378e-07 2.725295e+01 3.919415e-04 0.0055063725 1433.273 3.93427730 0.000000e+00

1329 281.6728 2.021697e-03 1.063476e-07 2.395603e+01 3.830892e-04 0.0070025008 1433.169 4.35723972 0.000000e+00

1330 281.6733 1.692651e-03 -4.785640e-07 1.984799e+01 3.756777e-04 0.0076578739 1433.081 3.93039083 0.000000e+00

1331 281.6737 1.295246e-03 3.190427e-07 1.580109e+01 3.700063e-04 0.0077125020 1433.012 4.02234030 0.000000e+00

1332 281.6742 2.099064e-03 1.132389e-02 2.194735e+01 3.608151e-04 0.0080306809 1432.915 3.47034764 0.000000e+00

1333 281.6747 1.226873e-02 1.332039e+00 8.565176e+01 3.070944e-04 0.0195793994 1432.534 3.51174474 0.000000e+00

1334 281.6751 1.305167e-02 3.156519e+00 1.170689e+02 2.499454e-04 0.0206195097 1432.007 3.43744040 0.000000e+00

1335 281.6755 4.204072e-03 9.520470e-01 6.305179e+01 2.315371e-04 0.0127973035 1431.727 2.36200070 0.000000e+00

1336 281.6760 1.536136e-04 1.063476e-07 8.885666e+00 2.308645e-04 0.0016305932 1431.687 2.01080441 0.000000e+00

1337 281.6765 2.966020e-04 1.063476e-07 1.125508e+01 2.295658e-04 0.0047938623 1431.638 4.78200245 0.000000e+00

1338 281.6769 5.281501e-04 2.126951e-07 1.458657e+01 2.272532e-04 0.0097664678 1431.574 4.22317457 0.000000e+00

1339 281.6774 7.309149e-04 -5.317378e-08 1.504255e+01 2.240528e-04 0.0154399062 1431.508 6.38691282 0.000000e+00

1340 281.6778 1.709165e-03 6.718241e-03 2.752806e+01 2.165688e-04 0.0221611056 1431.387 6.96962214 0.000000e+00

1341 281.6783 6.401291e-03 1.162187e+00 8.799384e+01 1.885397e-04 0.0306409597 1430.996 7.02706003 0.000000e+00

1342 281.6787 6.837540e-03 3.146848e+00 1.239025e+02 1.586003e-04 0.0281783659 1430.440 4.97075987 0.000000e+00

1343 281.6792 1.831076e-03 1.009546e+00 5.902263e+01 1.505826e-04 0.0130262850 1430.177 1.49051380 0.000000e+00

1344 281.6797 2.594238e-05 5.450311e-07 3.818465e+00 1.504690e-04 0.0009119007 1430.161 0.65286124 0.000000e+00

1345 281.6801 4.597984e-05 3.408236e-03 5.528951e+00 1.502677e-04 0.0020673734 1430.136 3.60883641 0.000000e+00

1346 281.6806 6.475601e-04 1.754735e-06 2.835791e+01 1.474322e-04 0.0156167662 1430.012 7.36207962 0.000000e+00

1347 281.6810 9.782939e-04 4.253902e-07 3.312816e+01 1.431486e-04 0.0247341003 1429.867 6.73045111 0.000000e+00

1348 281.6815 8.953507e-04 3.190427e-07 3.390626e+01 1.392282e-04 0.0226379707 1429.719 6.00901842 0.000000e+00

1349 281.6819 2.208052e-03 5.352893e-01 7.623920e+01 1.295598e-04 0.0265927818 1429.383 5.05265141 0.000000e+00

1350 281.6824 2.495882e-03 1.531318e+00 1.003113e+02 1.186312e-04 0.0241726264 1428.937 3.62184477 0.000000e+00

1351 281.6829 3.802906e-01 3.892553e-01 5.892383e+01 4.790456e-03 0.0148861082 1428.683 2.33193135 6.000001e-07

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1353 281.6837 2.732616e-01 1.329344e-08 5.916075e+00 1.635145e-02 0.0009680998 1428.562 0.87422913 6.800000e-07

1354 281.6842 8.023403e-01 5.317378e-08 6.558557e+00 4.367739e-02 0.0013417517 1428.572 2.11624503 3.920002e-06

1355 281.6847 6.629131e+00 5.317378e-08 1.647022e+01 4.577777e-02 0.0073424727 1428.574 4.91174316 9.800001e-06

1356 281.6851 1.143853e+01 4.253902e-07 2.726592e+01 3.238413e-02 0.0141670182 1428.982 3.94509006 5.511999e-05

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1358 281.6860 1.158364e+01 1.346666e-01 7.174142e+01 1.171960e-02 0.0236658584 1429.888 5.01301575 1.015600e-04

1359 281.6865 2.067298e+00 3.891310e-02 5.270847e+01 2.667578e-03 0.0202000085 1429.648 4.84600163 0.000000e+00

1360 281.6870 1.526322e-01 5.317378e-07 2.701991e+01 1.999252e-03 0.0161600504 1429.529 3.95214677 0.000000e+00

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1363 281.6883 3.041951e-03 2.658689e-08 2.449286e+00 1.688696e-03 0.0040577361 1429.414 3.00288773 0.000000e+00

1364 281.6888 9.314316e-03 5.649714e-08 4.771616e+00 1.647911e-03 0.0038507804 1429.393 2.56859803 0.000000e+00

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1366 281.6897 1.011115e-01 6.645977e-01 7.410461e+01 7.595099e-04 0.0232101399 1428.886 4.06862879 0.000000e+00

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1368 281.6906 9.216082e-02 2.658689e-08 1.136555e+01 6.971196e-03 0.0039084372 1428.633 0.47139362 4.800001e-07

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1370 281.6915 1.046775e+00 1.329344e-07 1.324221e+01 1.397277e-02 0.0046927305 1428.563 3.00473166 5.599998e-07

1371 281.6920 6.388363e-01 1.329344e-07 9.205404e+00 1.382799e-02 0.0038254026 1428.523 2.31007600 2.799999e-07

1372 281.6924 6.361309e-01 1.329344e-08 8.908159e+00 1.104258e-02 0.0032885969 1428.482 2.71192789 0.000000e+00

1373 281.6929 2.055018e+00 5.467626e-01 6.540256e+01 2.044323e-03 0.0181626379 1428.184 5.05336666 0.000000e+00

1374 281.6933 2.980824e-01 1.725319e+00 1.068591e+02 7.391175e-04 0.0277833026 1427.708 6.67343473 0.000000e+00

1375 281.6938 4.114919e-02 4.614466e-01 6.601980e+01 5.589387e-04 0.0201249775 1427.417 3.73709464 0.000000e+00

1376 281.6942 5.690818e-03 5.317378e-07 2.601163e+01 5.340205e-04 0.0086202659 1427.302 4.03929138 0.000000e+00

1377 281.6947 2.776704e-03 0.000000e+00 1.655849e+01 5.218621e-04 0.0070802141 1427.229 3.83636665 0.000000e+00

1378 281.6951 2.202100e-03 -1.063476e-07 1.357601e+01 5.122198e-04 0.0073505193 1427.171 4.28941441 0.000000e+00

1379 281.6955 1.500068e-03 1.595213e-07 1.045902e+01 5.056514e-04 0.0062171756 1427.125 3.61115360 0.000000e+00

1380 281.6960 2.621548e-03 2.658689e-08 1.508178e+01 4.941724e-04 0.0071642380 1427.059 4.74286270 0.000000e+00

1381 281.6964 2.233368e-02 7.144260e-01 7.382866e+01 3.963806e-04 0.0236530956 1426.733 6.08365917 0.000000e+00

1382 281.6969 2.237565e-02 1.595622e+00 1.017614e+02 2.984049e-04 0.0283723548 1426.281 6.33174801 0.000000e+00

1383 281.6973 7.099332e-03 4.446248e-01 6.112395e+01 2.673192e-04 0.0186940283 1426.011 3.26581502 0.000000e+00

1384 281.6977 7.789505e-04 6.114985e-07 1.925866e+01 2.639084e-04 0.0050261742 1425.926 2.60490227 0.000000e+00

1385 281.6982 3.089541e-04 2.126951e-07 1.101834e+01 2.625556e-04 0.0031124221 1425.877 2.95070434 0.000000e+00

1386 281.6986 1.562301e-04 1.063476e-07 6.471230e+00 2.618714e-04 0.0019292599 1425.849 1.88895512 0.000000e+00

1387 281.6991 2.110627e-04 -2.658689e-08 7.620592e+00 2.609473e-04 0.0028185814 1425.816 3.71849823 0.000000e+00

1388 281.6995 7.567051e-04 3.722165e-07 1.788175e+01 2.576339e-04 0.0065621547 1425.737 3.92742872 0.000000e+00

1389 281.6999 5.807854e-03 3.945501e-01 7.008169e+01 2.322032e-04 0.0201698262 1425.428 4.52364731 0.000000e+00

1390 281.7004 7.499706e-03 1.382578e+00 9.987463e+01 1.993645e-04 0.0233660340 1424.984 4.64634418 0.000000e+00

1391 281.7008 2.648152e-03 3.486261e-01 5.625449e+01 1.877691e-04 0.0144367022 1424.736 3.37545538 0.000000e+00

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1394 281.7021 8.239604e-05 8.640739e-08 5.525984e+00 1.844686e-04 0.0029676503 1424.558 2.47463799 0.000000e+00

1395 281.7026 -1.088999e-04 7.526133e-03 2.360670e-01 1.849455e-04 0.0016810064 1424.556 2.00929117 0.000000e+00

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1397 281.7035 2.020197e-03 8.699539e-01 4.824678e+01 1.945939e-04 0.0089423964 1424.337 1.31964540 0.000000e+00

1398 281.7039 4.180256e-03 2.585715e+00 9.430496e+01 1.762900e-04 0.0146755269 1423.912 2.43443036 0.000000e+00

1399 281.7043 4.989087e+00 6.243398e-01 4.971266e+01 2.427668e-02 0.0113332225 1423.776 3.96789908 1.000000e-05

1400 281.7048 4.488406e+00 2.871384e-06 1.693579e+01 4.044390e-02 0.0090544606 1423.938 4.37822580 2.444000e-05

1401 281.7052 8.015612e+00 1.595213e-07 1.871682e+01 3.822031e-02 0.0140253352 1424.233 5.03163147 3.940001e-05

1402 281.7056 7.271080e+00 1.063476e-07 1.553962e+01 3.971525e-02 0.0174083803 1424.598 5.43448496 4.432001e-05

1403 281.7061 5.323775e+00 2.126951e-07 1.023285e+01 4.735877e-02 0.0170461237 1425.002 4.12029123 4.520000e-05

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1412 281.7100 4.778700e+00 2.126951e-07 9.888429e+00 4.313722e-02 0.0142580764 1425.688 2.36327529 8.639997e-06

1413 281.7105 1.373846e+01 2.455043e-01 3.418157e+01 1.995469e-02 0.0150515540 1425.530 1.48757720 4.840002e-06

1414 281.7109 1.207431e+01 1.052639e+00 6.097485e+01 1.232298e-02 0.0166475140 1425.292 2.19949532 8.040001e-06

1415 281.7114 1.936218e+00 1.808717e-01 3.115099e+01 3.844915e-03 0.0175939668 1425.147 4.58927631 0.000000e+00

1416 281.7118 2.055827e+00 -1.728148e-07 9.793063e+00 3.534855e-02 0.0191025194 1425.593 4.70093393 4.755998e-05

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1418 281.7127 1.600721e+00 3.323361e-08 1.917328e+00 6.992555e-02 0.0244580712 1428.395 6.33908272 1.239200e-04

1419 281.7131 1.328498e+00 9.970083e-09 1.497645e+00 7.865530e-02 0.0177809093 1429.242 3.59784031 8.320002e-05

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1422 281.7144 1.166619e+01 1.794783e-01 5.403431e+01 1.254672e-02 0.0331274681 1431.560 8.34248257 1.996800e-04

1423 281.7149 8.229361e+00 2.214752e-02 3.286897e+01 1.977430e-02 0.0323239528 1431.579 7.89707851 1.904000e-05

1424 281.7153 7.579257e+00 5.317378e-08 1.945976e+01 2.574084e-02 0.0303626154 1431.715 7.95240450 2.440001e-05

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1429 281.7174 1.059579e+01 -3.190427e-07 4.272834e+01 8.810141e-03 0.0571187772 1431.250 14.26982117 5.440001e-06

1430 281.7178 1.064801e+01 -2.126951e-07 5.245963e+01 8.698543e-03 0.0591792576 1431.031 14.64504433 5.440001e-06

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1455 281.7284 3.521969e+00 1.108443e-02 1.310867e+01 3.547021e-02 0.0116237095 1436.786 3.30641747 0.000000e+00

1456 281.7288 3.770316e-01 1.661681e-09 1.392977e+00 4.192429e-02 0.0083178831 1436.779 3.11865592 0.000000e+00

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1458 281.7297 -4.009362e-01 3.836328e-03 4.143171e-03 5.834536e-02 0.0119970450 1436.782 4.03166389 0.000000e+00

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1463 281.7318 3.882275e+00 9.305412e-08 1.358439e+01 4.022985e-02 0.0144642340 1437.615 2.57519221 1.198000e-04

1464 281.7322 2.623742e-02 5.322398e-02 2.083177e-01 6.260574e-02 0.0061027133 1438.737 2.92470813 1.091600e-04

1465 281.7326 4.455211e-01 3.323361e-09 7.997038e-01 7.489962e-02 0.0106966300 1438.948 3.71252084 2.084000e-05

1466 281.7330 1.461737e+00 1.661681e-09 1.884736e+00 7.892098e-02 0.0130490912 1439.535 3.59218335 5.804001e-05

1467 281.7334 1.397727e+00 -2.658689e-08 1.755074e+00 7.808959e-02 0.0124357743 1439.764 3.38121271 2.308000e-05

1468 281.7338 3.154454e+00 5.317378e-08 3.399347e+00 7.292109e-02 0.0140359038 1439.805 4.55609035 6.479999e-06

1469 281.7342 1.559711e+01 1.595213e-07 2.364571e+01 2.908223e-02 0.0235060751 1440.303 5.69836712 6.500002e-05

1470 281.7346 1.098531e+01 8.507805e-07 3.799766e+01 1.893010e-02 0.0257617980 1440.907 5.63011551 7.952002e-05

1471 281.7350 4.041425e+00 1.595213e-07 1.499400e+01 2.934571e-02 0.0207083914 1440.825 4.59007168 0.000000e+00

1472 281.7354 -2.963269e-01 3.340984e-03 4.438059e-02 3.859559e-02 0.0139405048 1440.827 4.31000710 0.000000e+00

1473 281.7358 -6.897867e-01 0.000000e+00 0.000000e+00 4.591915e-02 0.0122751752 1440.831 4.04030895 0.000000e+00

1474 281.7363 -5.308214e-01 0.000000e+00 0.000000e+00 4.995866e-02 0.0092868367 1440.833 3.02104425 0.000000e+00

1475 281.7367 -2.147423e-01 0.000000e+00 0.000000e+00 5.127365e-02 0.0030343197 1440.834 1.11048484 0.000000e+00

1476 281.7371 5.436749e-01 4.735790e-08 1.419302e+00 5.116543e-02 0.0022871250 1440.826 0.91303360 0.000000e+00

1477 281.7375 1.290432e+01 2.118745e-01 2.917739e+01 2.277015e-02 0.0125735169 1440.639 1.55935478 0.000000e+00

1478 281.7379 1.041384e+01 9.180703e-01 5.014655e+01 1.252696e-02 0.0137358522 1440.370 0.69767052 0.000000e+00

1479 281.7383 2.693212e+00 1.337030e-01 1.788812e+01 2.132441e-02 0.0078588584 1440.291 0.85488999 1.080000e-06

1480 281.7387 3.158990e-02 2.815287e-02 2.980338e-01 3.219726e-02 0.0013340187 1440.302 1.95698535 1.160000e-06

1481 281.7391 -9.251705e-02 2.625417e-03 2.843373e-03 3.378767e-02 0.0015467186 1440.303 2.09090161 0.000000e+00

1482 281.7395 -3.429145e-01 0.000000e+00 0.000000e+00 3.615759e-02 0.0020842475 1440.305 2.71564317 0.000000e+00

1483 281.7399 -1.084015e+00 0.000000e+00 0.000000e+00 4.197079e-02 0.0043789209 1440.310 3.82673287 0.000000e+00

1484 281.7403 5.174323e-01 3.323361e-08 1.579627e+00 4.979216e-02 0.0107150963 1440.312 4.53336430 1.000000e-06

1485 281.7407 1.420871e+01 4.064332e-01 4.780448e+01 8.413779e-03 0.0212919358 1440.045 5.03372002 6.800000e-07

1486 281.7411 5.071126e+00 1.434417e+00 8.667709e+01 5.743114e-03 0.0210456327 1439.642 4.36809683 4.399999e-07

1487 281.7415 1.134484e+00 3.058324e-01 3.730249e+01 6.049151e-03 0.0122811049 1439.473 3.74179173 0.000000e+00

1488 281.7419 1.611149e-01 -2.658689e-08 5.448479e+00 7.403072e-03 0.0078169229 1439.448 4.34934092 0.000000e+00

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1491 281.7431 2.424353e-01 1.399156e-02 2.489355e+00 9.870376e-03 0.0134963915 1439.434 5.87369776 0.000000e+00

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1508 281.7498 4.629643e-04 1.661680e-07 6.569014e+00 2.712989e-04 0.0104283215 1437.336 4.69351673 0.000000e+00

1509 281.7502 5.084818e-03 4.869910e-02 4.997589e+01 2.490342e-04 0.0236813277 1437.117 5.56437635 0.000000e+00

1510 281.7506 6.881859e-03 4.355262e-01 7.786024e+01 2.189008e-04 0.0255742949 1436.775 5.51470661 0.000000e+00

1511 281.7510 2.139335e-03 3.018378e-02 3.658697e+01 2.095333e-04 0.0160111543 1436.615 4.01226902 0.000000e+00

1512 281.7514 3.026020e-04 2.126951e-07 9.961546e+00 2.082084e-04 0.0080699092 1436.572 4.04488993 0.000000e+00

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1516 281.7529 -2.801433e-03 1.980010e-03 2.617816e+00 2.434857e-04 0.0023563325 1436.508 2.91840601 0.000000e+00

1517 281.7533 3.551082e-03 5.464362e-01 5.718470e+01 2.279367e-04 0.0134189315 1436.255 2.58260679 0.000000e+00

1518 281.7537 4.901349e-03 1.613680e+00 8.701302e+01 2.064752e-04 0.0142777823 1435.867 2.28976488 0.000000e+00

1519 281.7541 9.122713e-04 2.468981e-01 2.478194e+01 2.024807e-04 0.0053594043 1435.757 1.07295847 0.000000e+00

1520 281.7545 -2.083570e-03 5.102665e-03 2.372907e+00 2.116040e-04 0.0014930675 1435.746 1.30331492 0.000000e+00

1521 281.7549 6.348202e-06 1.426394e-03 3.693821e-01 2.115762e-04 0.0015123844 1435.743 2.53775454 0.000000e+00

1522 281.7552 4.686540e-05 1.495513e-08 2.158229e+00 2.113710e-04 0.0033372424 1435.733 3.46865487 0.000000e+00

1523 281.7556 3.484580e-04 1.329344e-08 9.446143e+00 2.098452e-04 0.0098586148 1435.691 4.96749306 0.000000e+00

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1527 281.7571 1.213491e+00 2.202709e-01 3.540676e+01 1.285111e-02 0.0100629264 1434.938 2.10555029 1.800000e-06

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1534 281.7597 4.419299e+00 1.481619e+00 8.543121e+01 6.875431e-03 0.0151441246 1434.328 1.69682062 1.800000e-06

1535 281.7601 6.422306e-01 2.462894e-01 2.678908e+01 4.063312e-03 0.0049729994 1434.207 1.91899943 0.000000e+00

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1538 281.7612 9.448558e-02 2.658689e-07 1.270969e+01 2.909402e-03 0.0085078049 1434.058 3.98672485 0.000000e+00

1539 281.7616 3.669789e-02 1.329344e-08 7.629671e+00 2.748713e-03 0.0053179278 1434.025 2.97252607 0.000000e+00

1540 281.7619 6.268853e-03 2.326353e-08 2.188429e+00 2.721264e-03 0.0013654084 1434.016 0.21858631 0.000000e+00

1541 281.7623 2.036360e-01 2.260629e-01 3.756350e+01 1.829608e-03 0.0098904958 1433.850 3.00625563 0.000000e+00

1542 281.7627 1.601506e-01 5.744461e-01 6.225972e+01 1.128361e-03 0.0147808557 1433.575 2.50791192 0.000000e+00

1543 281.7631 3.614772e+00 1.000214e-01 3.673406e+01 1.506555e-02 0.0165773816 1433.431 5.91501331 3.080000e-06

1544 281.7634 5.681576e+00 3.190427e-07 2.120958e+01 2.375100e-02 0.0230139866 1433.379 6.45245600 6.119998e-06

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1546 281.7642 6.048397e+00 -3.722165e-07 1.725793e+01 2.935619e-02 0.0222337376 1434.357 5.56483650 4.396000e-05

1547 281.7645 3.958171e+00 0.000000e+00 1.468503e+01 1.849946e-02 0.0185266528 1434.284 4.25428152 8.000000e-07

1548 281.7649 2.623351e+00 2.126951e-07 1.468365e+01 1.374390e-02 0.0167901833 1434.216 4.66145611 7.600000e-07

1549 281.7653 2.294112e+00 0.000000e+00 2.896404e+01 3.698726e-03 0.0233588684 1434.079 6.31937838 0.000000e+00

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1555 281.7674 3.106830e-02 7.976067e-08 6.854068e+00 2.045863e-03 0.0134001384 1433.725 4.06404114 0.000000e+00

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1562 281.7699 1.215612e-03 5.317378e-08 3.730353e+00 7.549552e-04 0.0049146148 1433.088 3.44965053 0.000000e+00

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1568 281.7720 1.061774e-04 6.797977e-03 6.677375e-01 6.074535e-04 0.0009976526 1432.697 1.10127401 0.000000e+00

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1596 281.7816 5.216092e-03 4.732386e-03 3.780411e-01 6.678618e-03 0.0020977582 1431.736 1.90140510 7.999998e-08

1597 281.7819 1.273715e+00 4.652705e-07 1.965483e+01 6.622656e-03 0.0112034203 1431.650 2.62942767 5.599998e-07

1598 281.7823 1.472807e+00 1.063476e-07 3.852480e+01 5.033471e-03 0.0136584379 1431.481 1.88831329 4.800001e-07

1599 281.7826 3.884082e-01 1.063476e-07 2.083407e+01 3.332759e-03 0.0109411879 1431.388 2.19270825 0.000000e+00

1600 281.7829 1.010778e-01 5.317378e-08 1.059104e+01 2.890172e-03 0.0100017805 1431.340 2.35196090 0.000000e+00

1601 281.7832 4.006204e-02 -9.305412e-08 6.258474e+00 2.714754e-03 0.0066441582 1431.312 1.17413509 0.000000e+00

1602 281.7836 1.170397e-02 2.366541e-02 2.052441e+00 2.663506e-03 0.0060699265 1431.302 3.87113929 0.000000e+00

1603 281.7839 1.511031e-02 -4.320370e-08 2.130900e+00 2.597343e-03 0.0117861787 1431.292 3.48775053 0.000000e+00

1604 281.7842 3.896871e-03 1.306278e-02 1.148450e+00 2.580279e-03 0.0078331484 1431.286 3.37202883 0.000000e+00

1605 281.7845 1.137499e-01 1.595213e-07 1.691608e+01 2.082207e-03 0.0146119883 1431.211 2.90639472 0.000000e+00

1606 281.7849 1.169867e-01 0.000000e+00 2.669185e+01 1.569960e-03 0.0161026102 1431.093 3.46684861 0.000000e+00

1607 281.7852 2.026991e+00 3.722165e-07 1.808562e+01 2.438135e-02 0.0131666483 1431.080 2.08785868 7.159998e-06

1608 281.7855 2.645511e+00 -1.329344e-07 9.918723e+00 3.745578e-02 0.0103695896 1431.085 3.12450123 5.680000e-06

1609 281.7858 4.175295e+00 0.000000e+00 1.002972e+01 4.001270e-02 0.0147817014 1431.188 5.05042315 1.584000e-05

1610 281.7861 4.085571e+00 2.658689e-08 8.374146e+00 4.184922e-02 0.0181817282 1431.361 6.22546577 2.176000e-05

1611 281.7865 4.749202e+00 -5.317378e-08 1.025028e+01 2.187588e-02 0.0255377591 1431.658 7.67470169 3.368000e-05

1612 281.7868 2.892591e+00 -1.063476e-07 1.185341e+01 9.210167e-03 0.0309622735 1431.837 9.02444363 2.276000e-05

1613 281.7871 3.144001e+00 4.785640e-07 2.343780e+01 1.230660e-02 0.0337173343 1431.892 8.66350555 1.692000e-05

1614 281.7874 7.443909e+00 4.253902e-07 3.281358e+01 1.353915e-02 0.0335585438 1431.810 9.05448341 9.919998e-06

1615 281.7878 4.469125e+00 1.063476e-07 1.727964e+01 2.448432e-02 0.0278876498 1431.716 6.44903994 3.199999e-07

1616 281.7881 7.065630e-01 2.600745e-03 2.650229e+00 2.816889e-02 0.0129611334 1431.702 4.35996342 1.200000e-07

1617 281.7884 -5.018253e-01 0.000000e+00 0.000000e+00 3.063734e-02 0.0086218379 1431.706 4.93108797 3.999999e-08

1618 281.7887 1.909233e+00 4.892746e-03 3.823041e+00 2.987158e-02 0.0216568094 1431.785 7.81556749 9.879997e-06

1619 281.7890 3.734187e+00 7.976067e-08 1.152293e+01 1.352079e-02 0.0279684309 1432.046 7.75440025 3.072001e-05

1620 281.7893 1.932111e+00 5.317378e-08 1.709422e+01 5.060709e-03 0.0263166633 1432.139 6.95026875 1.704000e-05

1621 281.7897 6.107854e-01 2.126951e-07 2.935709e+01 2.386279e-03 0.0236180704 1432.064 4.40912104 6.360001e-06

1622 281.7900 6.059608e-01 -1.063476e-07 3.641510e+01 2.880967e-03 0.0199079346 1431.914 4.38073778 2.360001e-06

1623 281.7903 1.901090e-01 -5.317378e-08 2.507687e+01 2.048541e-03 0.0139962798 1432.156 2.38967967 3.315999e-05

1624 281.7906 6.481873e-02 3.722165e-07 1.727168e+01 1.764720e-03 0.0099419029 1432.373 2.08442163 2.715999e-05

1625 281.7909 6.424863e-02 3.190427e-07 2.026369e+01 1.483396e-03 0.0130679207 1432.427 3.76208162 1.340000e-05

1626 281.7912 5.683723e-02 5.317378e-08 2.191163e+01 1.234524e-03 0.0174287278 1432.812 4.64706421 4.547999e-05

1627 281.7915 3.949859e-02 3.190427e-07 1.967504e+01 1.061573e-03 0.0197949950 1433.236 5.37541485 4.808000e-05

1628 281.7918 2.977952e-02 0.000000e+00 1.912119e+01 9.311783e-04 0.0202966165 1434.011 4.58110714 8.060002e-05

1629 281.7921 3.486434e-02 5.317378e-07 2.710154e+01 7.785187e-04 0.0238705855 1434.255 6.30451298 3.792001e-05

1630 281.7924 2.928113e-02 4.253902e-07 3.067883e+01 6.503061e-04 0.0262452122 1434.288 6.44627523 2.164001e-05

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1633 281.7934 7.376804e-03 -1.595213e-07 1.711628e+01 5.086246e-04 0.0199271198 1433.977 4.44217205 2.320001e-06

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1635 281.7940 2.197520e-03 5.317378e-08 7.954348e+00 4.809031e-04 0.0107740210 1433.925 2.03863740 2.199999e-06

1636 281.7943 2.345502e-03 -2.658689e-08 8.279841e+00 4.706329e-04 0.0130949421 1433.895 3.82179046 1.200000e-06

1637 281.7946 3.906533e-03 -1.595213e-07 1.315594e+01 4.535275e-04 0.0164260399 1433.815 3.28898478 3.999999e-08

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1639 281.7952 3.754191e-03 2.658689e-08 1.341389e+01 4.088036e-04 0.0207145270 1433.637 4.94270229 2.640001e-06

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1641 281.7958 1.484823e-03 7.976067e-08 7.673587e+00 3.942880e-04 0.0122409193 1433.723 1.89569318 1.012000e-05

1642 281.7961 1.044172e-03 1.329345e-07 5.961447e+00 3.897159e-04 0.0102024144 1433.980 2.10579705 2.648000e-05

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1644 281.7967 1.203694e-03 -1.063476e-07 5.808365e+00 3.797444e-04 0.0161436778 1436.936 3.34546304 1.242800e-04

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1649 281.7982 7.273154e-04 1.329344e-08 4.416780e+00 3.515138e-04 0.0118672894 1436.768 2.45837235 1.960001e-06

1650 281.7985 6.114394e-04 -1.329344e-08 4.043867e+00 3.488365e-04 0.0098732701 1436.772 1.78436339 1.840000e-06

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1654 281.7996 1.816459e-03 1.861082e-07 8.831380e+00 3.299999e-04 0.0264089499 1436.691 7.60842705 2.000000e-06

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1656 281.8002 1.112629e-03 -1.329344e-08 5.606220e+00 3.181455e-04 0.0283946674 1437.294 7.58487129 4.612001e-05

1657 281.8005 8.320168e-04 3.988033e-08 4.694494e+00 3.145023e-04 0.0244512837 1437.936 5.74622774 6.192002e-05

1658 281.8008 7.148244e-04 2.658689e-08 4.484977e+00 3.113723e-04 0.0210265722 1438.461 5.58775568 5.103998e-05

1659 281.8011 5.398421e-04 3.988033e-08 3.879735e+00 3.090084e-04 0.0159959029 1438.739 3.44018769 2.719999e-05

1660 281.8013 4.292879e-04 5.317378e-08 3.533692e+00 3.071287e-04 0.0108300857 1438.930 5.72101355 1.900000e-05

1661 281.8016 1.580960e-03 -5.317378e-08 8.021307e+00 3.002061e-04 0.0322083421 1438.846 10.57582760 0.000000e+00

1662 281.8019 2.112238e-03 -7.976067e-08 1.037383e+01 2.909573e-04 0.0372143649 1439.157 8.53548050 3.947999e-05

1663 281.8022 1.287256e-03 -2.658689e-08 7.781857e+00 2.853209e-04 0.0292943213 1439.088 6.57576704 0.000000e+00

1664 281.8025 7.332168e-04 9.305412e-08 5.379026e+00 2.821103e-04 0.0214007497 1439.060 5.30506659 0.000000e+00

1665 281.8028 7.795694e-04 1.063476e-07 5.876399e+00 2.786969e-04 0.0171556715 1439.038 4.61850500 0.000000e+00

1666 281.8031 6.969465e-04 0.000000e+00 5.516215e+00 2.756452e-04 0.0163417067 1439.018 4.70048046 0.000000e+00

1667 281.8033 8.053489e-04 5.317378e-08 5.937399e+00 2.721188e-04 0.0216186102 1438.987 6.80283260 0.000000e+00

1668 281.8036 8.374854e-04 7.976067e-08 6.061907e+00 2.684518e-04 0.0243530404 1438.953 6.15538454 0.000000e+00

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1671 281.8044 7.402793e-04 2.658689e-08 6.617726e+00 2.553054e-04 0.0205888283 1438.728 4.36742115 0.000000e+00

1672 281.8047 5.164758e-04 7.976067e-08 5.134809e+00 2.530439e-04 0.0158774070 1438.713 5.09452581 0.000000e+00

1673 281.8050 4.296788e-04 -1.329344e-08 4.240407e+00 2.511624e-04 0.0178858712 1438.701 5.19245195 0.000000e+00

1674 281.8052 2.018106e-04 0.000000e+00 2.050077e+00 2.502787e-04 0.0193466488 1438.707 6.68955898 0.000000e+00

1675 281.8055 -1.596456e-02 -3.323361e-09 4.194835e-01 3.201824e-04 0.0249820054 1438.710 8.24825668 0.000000e+00

1676 281.8058 2.637001e-04 -8.308403e-09 1.463699e+00 3.190278e-04 0.0256254449 1438.688 6.27753115 0.000000e+00

1677 281.8060 5.982076e-04 -2.658689e-08 3.373867e+00 3.164084e-04 0.0238373652 1438.645 6.94250488 0.000000e+00

1678 281.8063 1.647206e-01 1.063476e-07 5.918861e+00 1.344106e-02 0.0227964204 1438.556 4.89389324 0.000000e+00

1679 281.8066 6.300460e-01 2.658689e-08 3.746366e+00 1.334851e-02 0.0166990552 1438.517 3.95661998 0.000000e+00

1680 281.8069 1.857912e-01 9.970083e-09 1.609100e+00 1.253499e-02 0.0098595740 1438.520 3.40553546 0.000000e+00

1681 281.8071 2.718569e-01 -1.329344e-08 2.494388e+00 1.134462e-02 0.0084263673 1438.517 2.14456797 0.000000e+00

1682 281.8074 1.746092e-01 -6.646722e-09 1.967816e+00 1.058006e-02 0.0068930876 1438.516 2.71346927 0.000000e+00

1683 281.8076 7.362043e-02 9.970083e-09 1.115728e+00 1.025770e-02 0.0052560996 1438.524 2.84376955 3.199999e-07

1684 281.8079 6.660876e-02 -6.646722e-09 1.099767e+00 9.966040e-03 0.0046261451 1438.557 2.66311169 3.160000e-06

1685 281.8082 2.837464e-01 2.658689e-08 3.241078e+00 1.654451e-02 0.0081058936 1439.278 2.12521052 7.131999e-05

1686 281.8084 1.617916e+00 0.000000e+00 7.168976e+00 3.424491e-02 0.0092567271 1439.305 2.86021781 1.280000e-05

1687 281.8087 1.408841e+00 0.000000e+00 4.125947e+00 3.617281e-02 0.0114353122 1439.277 3.58344483 1.160000e-06

1688 281.8090 1.171806e+00 6.646722e-08 3.758411e+00 3.104186e-02 0.0097006010 1439.272 2.36428285 1.720000e-06

1689 281.8092 6.209025e-01 0.000000e+00 2.545043e+00 2.832313e-02 0.0069341115 1439.263 2.63833070 1.200000e-07

1690 281.8095 4.347451e-01 -1.994017e-08 1.913017e+00 2.641952e-02 0.0074451664 1439.259 2.87475228 2.400000e-07

1691 281.8097 5.796241e-01 3.323361e-08 2.497235e+00 2.388154e-02 0.0098510077 1439.248 3.12319684 3.999999e-08

1692 281.8100 2.893122e-01 1.329344e-08 1.578561e+00 2.261473e-02 0.0068604331 1439.245 1.93011785 1.200000e-07

1693 281.8102 9.283211e-01 -2.658689e-08 4.310793e+00 2.992906e-02 0.0082788197 1439.196 1.57964277 0.000000e+00

1694 281.8105 1.799928e+00 9.305412e-08 5.610237e+00 4.182778e-02 0.0093727661 1439.125 2.89807010 0.000000e+00

1695 281.8107 1.047955e+00 2.658689e-08 2.657874e+00 4.447582e-02 0.0095931999 1439.114 1.34947240 1.280000e-06

1696 281.8110 6.185164e-01 2.658689e-08 1.568426e+00 4.176754e-02 0.0093348986 1439.125 4.19334221 1.280000e-06

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1698 281.8115 1.701685e+00 6.646722e-08 3.816540e+00 2.924253e-02 0.0221612696 1439.100 6.68211555 1.280000e-06

1699 281.8117 1.578660e+00 0.000000e+00 4.350918e+00 2.233009e-02 0.0252136588 1439.075 6.64636517 1.280000e-06

1700 281.8120 1.356303e+00 1.329344e-08 4.794984e+00 1.639128e-02 0.0281078275 1439.055 8.55092049 1.280000e-06

1701 281.8123 1.584379e+00 1.063476e-07 7.238903e+00 9.453798e-03 0.0342657678 1440.086 9.67246628 1.024800e-04

1702 281.8125 9.115713e-01 1.329344e-07 7.730570e+00 5.462325e-03 0.0363882743 1440.010 9.81960011 1.280000e-06

1703 281.8127 2.778631e-01 1.196410e-07 5.475266e+00 4.245654e-03 0.0335240364 1439.959 8.39306450 0.000000e+00

1704 281.8130 1.207101e-01 3.988033e-08 3.935613e+00 3.717104e-03 0.0317291133 1439.928 9.15534306 0.000000e+00

1705 281.8132 7.916423e-02 1.329344e-08 3.363510e+00 3.370470e-03 0.0310282875 1439.907 8.27405930 0.000000e+00

1706 281.8135 1.043214e-01 -5.317378e-08 5.140376e+00 2.913680e-03 0.0314958505 1439.865 8.78369045 0.000000e+00

1707 281.8137 8.688587e-02 -7.976067e-08 5.493702e+00 2.533235e-03 0.0332033262 1439.815 9.15660954 0.000000e+00

1708 281.8139 6.708270e-02 7.976067e-08 5.609940e+00 2.239502e-03 0.0323188417 1439.766 8.38686371 0.000000e+00

1709 281.8142 6.902216e-02 1.595213e-07 7.249568e+00 1.937276e-03 0.0336362831 1439.692 9.65345097 0.000000e+00

1710 281.8144 6.078993e-02 2.658689e-08 8.595715e+00 1.671097e-03 0.0332862288 1439.593 8.06536674 0.000000e+00

1711 281.8146 2.897174e-02 1.329344e-08 6.056482e+00 1.544239e-03 0.0253738090 1439.543 5.65686989 0.000000e+00

1712 281.8149 1.526786e-02 -1.329344e-08 4.341646e+00 1.477386e-03 0.0184004996 1439.521 4.38856840 0.000000e+00

1713 281.8151 1.085102e-02 4.652706e-08 3.632198e+00 1.429873e-03 0.0139994025 1439.514 4.07125044 0.000000e+00

1714 281.8154 9.341045e-03 5.317378e-08 3.499225e+00 1.388972e-03 0.0120816296 1439.504 3.19529676 0.000000e+00

1715 281.8156 6.142675e-03 7.311395e-08 2.804352e+00 1.362075e-03 0.0085218176 1439.496 1.20965493 0.000000e+00

1716 281.8158 2.824876e-03 3.323361e-09 1.604714e+00 1.349706e-03 0.0052637518 1439.493 1.68386233 0.000000e+00

1717 281.8161 8.339731e-03 9.970083e-08 3.875668e+00 1.313189e-03 0.0110695222 1439.461 3.19178748 0.000000e+00

1718 281.8163 1.218828e-02 -2.658689e-08 5.546258e+00 1.259820e-03 0.0145119084 1439.407 3.07615066 0.000000e+00

1719 281.8165 6.675773e-03 0.000000e+00 3.374453e+00 1.230589e-03 0.0139580034 1439.380 3.96385622 0.000000e+00

1720 281.8168 2.197394e-03 1.999450e-03 1.332883e+00 1.220968e-03 0.0089770751 1439.377 2.12177634 0.000000e+00

1721 281.8170 -2.350779e-02 1.560007e-04 1.681998e-04 1.323901e-03 0.0027302792 1439.381 2.58913279 0.000000e+00

1722 281.8172 -1.061822e-01 0.000000e+00 0.000000e+00 1.788838e-03 0.0027762081 1439.394 3.43819833 0.000000e+00

1723 281.8174 -1.009967e-01 0.000000e+00 0.000000e+00 2.231069e-03 0.0057632034 1439.407 3.84534597 0.000000e+00

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1725 281.8179 1.936275e-02 4.652706e-08 3.683725e+00 2.121737e-03 0.0085234707 1439.378 0.11198928 0.000000e+00

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1727 281.8183 1.796153e-02 2.658689e-08 4.036141e+00 1.899112e-03 0.0107207000 1439.941 3.91128540 6.024001e-05

1728 281.8185 5.343104e-03 6.646722e-09 1.258643e+00 1.875716e-03 0.0104640955 1440.491 3.84801126 5.019999e-05

1729 281.8187 1.225268e-02 0.000000e+00 2.619732e+00 1.822065e-03 0.0141960448 1440.766 4.12946224 2.620000e-05

1730 281.8190 1.029043e-02 1.329344e-08 2.284675e+00 1.777007e-03 0.0148360953 1440.921 4.57361078 1.484000e-05

1731 281.8192 4.499503e-03 1.578597e-08 1.005696e+00 1.757305e-03 0.0177046154 1442.023 6.24448824 1.017200e-04

1732 281.8194 -2.491220e-02 2.023814e-04 2.092881e-02 1.866387e-03 0.0155994743 1442.969 4.37411976 8.676001e-05

1733 281.8196 -2.021616e-03 2.700231e-08 1.152868e+00 1.875239e-03 0.0127806105 1443.544 2.80986762 5.591999e-05

1734 281.8198 1.497565e-02 6.646722e-08 3.358435e+00 1.809666e-03 0.0140761733 1443.942 3.91610050 4.264001e-05

1735 281.8201 1.127529e-02 1.329344e-08 2.637819e+00 1.760295e-03 0.0139911473 1443.919 3.96238780 0.000000e+00

1736 281.8203 9.860073e-03 -1.329344e-08 2.312438e+00 1.717121e-03 0.0159858875 1443.912 5.39706326 0.000000e+00

1737 281.8205 1.567760e-02 2.658689e-08 3.502310e+00 1.648474e-03 0.0186700076 1443.885 4.70185900 0.000000e+00

1738 281.8207 1.626997e-02 0.000000e+00 3.843051e+00 1.577233e-03 0.0198415928 1443.849 5.67260695 0.000000e+00

1739 281.8209 1.925388e-02 2.658689e-08 4.821056e+00 1.492926e-03 0.0211147200 1443.804 4.99865007 0.000000e+00

1740 281.8211 1.724710e-02 -2.658689e-08 5.072392e+00 1.417407e-03 0.0181342009 1443.766 4.04953957 0.000000e+00

1741 281.8213 1.330170e-02 -2.658689e-08 4.589928e+00 1.359163e-03 0.0158927348 1443.724 4.27979803 0.000000e+00

1742 281.8215 1.631200e-02 1.329344e-07 5.988483e+00 1.287738e-03 0.0185826793 1443.631 4.63752794 0.000000e+00

1743 281.8217 8.752365e-03 8.640740e-08 3.982630e+00 1.249415e-03 0.0116041778 1443.599 2.08870578 0.000000e+00

1744 281.8219 5.590717e-03 2.658689e-08 3.105755e+00 1.224935e-03 0.0065251309 1443.587 1.84096444 0.000000e+00

1745 281.8221 5.775133e-03 6.646722e-08 3.251195e+00 1.199647e-03 0.0069163796 1443.575 2.42642069 0.000000e+00

1746 281.8223 4.894194e-03 1.994017e-08 2.827987e+00 1.178217e-03 0.0074688117 1443.570 2.68163109 0.000000e+00

1747 281.8225 6.527511e-03 -1.329344e-08 3.658800e+00 1.149635e-03 0.0084135262 1443.559 2.47400546 0.000000e+00

1748 281.8227 6.317714e-03 0.000000e+00 3.752596e+00 1.121972e-03 0.0104246726 1443.535 2.39748859 0.000000e+00

1749 281.8229 5.195215e-03 -5.317378e-08 3.320541e+00 1.099224e-03 0.0107886484 1443.507 3.24912071 0.000000e+00

1750 281.8231 5.588432e-03 3.988033e-08 3.697386e+00 1.074754e-03 0.0133787384 1443.449 2.92414594 0.000000e+00

1751 281.8233 4.432528e-03 -6.646722e-09 3.097950e+00 1.055346e-03 0.0108893672 1443.421 3.11865330 0.000000e+00

1752 281.8235 4.507354e-03 2.658689e-08 3.179953e+00 1.035610e-03 0.0111016668 1443.402 3.09278965 0.000000e+00

1753 281.8237 4.350757e-03 0.000000e+00 3.145267e+00 1.016559e-03 0.0087787472 1443.395 2.93892074 0.000000e+00

1754 281.8239 3.311381e-03 2.658689e-08 2.656624e+00 1.002059e-03 0.0074315127 1443.392 2.21415949 0.000000e+00

1755 281.8240 2.620955e-03 -1.329344e-08 2.331609e+00 9.905830e-04 0.0059029195 1443.388 1.42652714 0.000000e+00

1756 281.8242 1.515334e-03 -6.646722e-09 1.551170e+00 9.839479e-04 0.0048672385 1443.388 1.81580722 0.000000e+00

1757 281.8244 1.468364e-03 -1.329344e-08 1.732305e+00 9.775184e-04 0.0049616336 1443.369 1.22565484 0.000000e+00

1758 281.8246 4.284545e-03 6.646722e-08 3.995118e+00 9.587578e-04 0.0091412021 1443.304 1.38701379 0.000000e+00

1759 281.8248 2.631222e-03 -2.658689e-08 2.532298e+00 9.472365e-04 0.0061898562 1443.287 0.81233251 0.000000e+00

1760 281.8250 2.928771e-03 3.323361e-08 2.730999e+00 9.344123e-04 0.0054626954 1443.278 1.41207421 0.000000e+00

1761 281.8251 2.445820e-03 -6.646722e-09 2.437706e+00 9.237028e-04 0.0061854757 1443.273 2.16746688 0.000000e+00

1762 281.8253 2.203387e-03 1.329344e-08 2.235339e+00 9.140549e-04 0.0057055471 1443.269 0.75236928 0.000000e+00

1763 281.8255 1.903533e-03 1.994017e-08 1.991038e+00 9.057200e-04 0.0051465891 1443.265 1.39754665 0.000000e+00

1764 281.8257 1.246072e-03 1.329344e-08 1.473899e+00 9.002638e-04 0.0046763890 1443.264 1.53610742 0.000000e+00

1765 281.8259 1.380192e-03 5.317378e-08 1.692945e+00 8.942204e-04 0.0067945994 1443.245 2.10543251 0.000000e+00

1766 281.8260 3.058381e-03 4.652706e-08 3.270062e+00 8.808289e-04 0.0111244759 1443.189 2.39257622 0.000000e+00

1767 281.8262 2.500776e-03 2.658689e-08 2.763389e+00 8.698787e-04 0.0085941600 1443.179 2.22902989 9.600002e-07

1768 281.8264 1.726379e-03 3.323361e-08 2.090429e+00 8.623194e-04 0.0062726089 1443.190 2.68561482 1.440000e-06

1769 281.8266 2.394544e-03 0.000000e+00 2.601849e+00 8.518345e-04 0.0077222795 1443.207 2.78068590 1.799999e-06

1770 281.8267 2.300178e-03 6.646722e-09 2.559856e+00 8.417627e-04 0.0075816144 1443.230 2.49445057 2.440000e-06

1771 281.8269 2.112412e-03 3.323361e-08 2.476269e+00 8.325132e-04 0.0061411727 1443.238 0.94607592 1.240000e-06

1772 281.8271 1.741606e-03 -1.329344e-08 2.170481e+00 8.248872e-04 0.0054911803 1443.242 1.87119305 8.400002e-07

1773 281.8272 2.356054e-03 3.988033e-08 2.883828e+00 8.145710e-04 0.0091997348 1443.222 2.52433038 5.200000e-07

1774 281.8274 4.245393e-03 1.329344e-08 4.400286e+00 7.959817e-04 0.0165961813 1443.160 5.07055473 5.599998e-07

1775 281.8276 3.217718e-03 5.317378e-08 3.334436e+00 7.818923e-04 0.0175323244 1443.124 4.17123127 0.000000e+00

1776 281.8277 1.889638e-03 6.646722e-09 2.157305e+00 7.736183e-04 0.0144613618 1443.121 4.99830341 0.000000e+00

1777 281.8279 1.378126e-03 1.661681e-08 1.841280e+00 7.675838e-04 0.0095280623 1443.111 0.94214129 0.000000e+00

1778 281.8281 -7.222801e-03 2.246573e-03 3.592179e-02 7.992102e-04 0.0015241364 1443.120 2.50289178 0.000000e+00

1779 281.8282 -1.614835e-01 0.000000e+00 0.000000e+00 1.506294e-03 0.0038932201 1443.148 4.93491364 0.000000e+00

1780 281.8284 -4.311784e-01 0.000000e+00 0.000000e+00 3.394284e-03 0.0105693145 1443.187 5.93127155 0.000000e+00

1781 281.8286 -4.022758e-01 3.323361e-09 7.028750e-02 1.735176e-02 0.0167071857 1443.174 6.07292986 0.000000e+00

1782 281.8287 7.039855e-01 6.646722e-09 2.378530e+00 3.573392e-02 0.0188061446 1443.087 5.98460531 0.000000e+00

1783 281.8289 -1.279073e-01 -1.168181e-03 3.582364e-01 4.221350e-02 0.0177332871 1443.092 5.89582539 0.000000e+00

1784 281.8290 -5.237987e-01 0.000000e+00 0.000000e+00 4.450705e-02 0.0118576074 1443.117 4.11881733 0.000000e+00

1785 281.8292 -9.427828e-02 2.814181e-03 1.023296e-01 4.491987e-02 0.0058988449 1443.130 2.85884094 0.000000e+00

1786 281.8293 6.788258e-02 2.021312e-03 2.512044e-01 4.462262e-02 0.0043813540 1443.139 2.71530271 0.000000e+00

1787 281.8295 5.102149e-01 1.329344e-08 1.508215e+00 4.238857e-02 0.0050613428 1443.134 0.44190004 0.000000e+00

1788 281.8296 1.763047e-01 1.495513e-08 6.523880e-01 4.161659e-02 0.0022574600 1443.134 1.02932167 0.000000e+00

1789 281.8298 8.440207e-01 1.994017e-08 2.184617e+00 3.792089e-02 0.0107290195 1443.104 5.36436939 0.000000e+00

1790 281.8299 1.745170e+00 3.988033e-08 3.893201e+00 3.027936e-02 0.0208826642 1443.036 5.85920715 0.000000e+00

1791 281.8301 1.537426e+00 -2.658689e-08 4.215560e+00 2.354747e-02 0.0233651400 1442.986 6.72030544 0.000000e+00

1792 281.8302 1.104536e+00 6.646722e-08 4.046781e+00 1.871107e-02 0.0231469590 1442.954 6.64432859 0.000000e+00

1793 281.8304 1.505524e+00 2.658689e-08 6.710028e+00 1.211887e-02 0.0271550436 1442.909 7.76920652 1.560000e-06

1794 281.8305 7.590839e-01 -1.329344e-08 5.093832e+00 8.795091e-03 0.0292706136 1442.951 8.29228592 8.320000e-06

1795 281.8307 4.854460e-01 1.994017e-07 4.454575e+00 6.669481e-03 0.0304203238 1443.488 8.71284485 5.363999e-05

1796 281.8308 3.242203e-01 3.988033e-08 4.446337e+00 5.249826e-03 0.0293239970 1444.386 8.03005409 8.631999e-05

1797 281.8309 2.851104e-01 2.392820e-07 6.063970e+00 4.001420e-03 0.0310194846 1444.365 8.51266766 4.320000e-06

1798 281.8311 1.818542e-01 1.595213e-07 6.647155e+00 3.205139e-03 0.0291040614 1444.283 6.55770016 0.000000e+00

1799 281.8312 7.054962e-02 7.976067e-08 4.444595e+00 2.896225e-03 0.0180883836 1444.253 3.78473783 0.000000e+00

1800 281.8313 4.205759e-02 6.646722e-08 3.643706e+00 2.712069e-03 0.0106351115 1444.242 3.42164636 0.000000e+00

1801 281.8315 3.309464e-02 0.000000e+00 3.371408e+00 2.567159e-03 0.0096921483 1444.232 3.14141607 0.000000e+00

1802 281.8316 2.219829e-02 0.000000e+00 2.767700e+00 2.469959e-03 0.0075317100 1444.224 1.44165576 0.000000e+00

1803 281.8317 1.845788e-02 1.994017e-08 2.589017e+00 2.389139e-03 0.0063628280 1444.215 2.13373137 0.000000e+00

1804 281.8319 2.282064e-02 7.976067e-08 3.231938e+00 2.289215e-03 0.0077436864 1444.203 2.21650147 0.000000e+00

1805 281.8320 2.826439e-02 1.329344e-08 4.249155e+00 2.165455e-03 0.0102310730 1444.168 1.89579690 0.000000e+00

1806 281.8322 3.605625e-02 7.976067e-08 5.740271e+00 2.007576e-03 0.0142518729 1444.099 3.31031871 0.000000e+00

1807 281.8323 2.441241e-02 7.976067e-08 4.321696e+00 1.900682e-03 0.0142524019 1444.068 4.50270510 0.000000e+00

1808 281.8324 1.942817e-02 1.329344e-08 3.594872e+00 1.815612e-03 0.0139209293 1444.056 4.77749825 0.000000e+00

1809 281.8326 2.637674e-02 -3.988033e-08 4.754065e+00 1.700117e-03 0.0216671024 1444.076 6.41480875 6.759999e-06

1810 281.8326 1.713953e-02 3.988033e-08 3.468070e+00 1.625068e-03 0.0213255454 1444.133 5.93659163 8.160000e-06

1811 281.8328 1.453153e-02 6.646722e-08 3.187622e+00 1.561439e-03 0.0205874126 1444.335 6.38616514 2.024000e-05

1812 281.8329 1.381040e-02 2.658689e-08 3.292594e+00 1.500968e-03 0.0213758498 1444.839 5.66574717 4.952001e-05

1813 281.8330 1.527608e-02 1.329344e-08 3.823605e+00 1.434079e-03 0.0227320995 1445.468 6.71946001 6.268000e-05

1814 281.8331 1.607158e-02 0.000000e+00 4.443400e+00 1.363707e-03 0.0231266767 1445.624 5.20227623 2.104000e-05

1815 281.8333 5.713660e-03 4.652705e-08 2.059989e+00 1.338688e-03 0.0139159011 1445.613 4.11707306 0.000000e+00

1816 281.8334 2.763815e-03 1.495513e-08 1.162477e+00 1.326586e-03 0.0105887651 1445.622 4.63213015 0.000000e+00

1817 281.8335 4.967640e-03 2.658689e-08 2.045816e+00 1.304835e-03 0.0150744990 1445.590 3.25051594 0.000000e+00

1818 281.8336 9.769179e-04 6.839403e-03 5.422592e-01 1.300557e-03 0.0066795894 1445.604 4.05728054 5.200000e-07

1819 281.8337 1.116911e-03 0.000000e+00 6.061447e-01 1.295667e-03 0.0069266041 1445.639 3.59239149 2.320001e-06

1820 281.8338 3.919718e-04 8.308403e-10 2.591713e-01 1.293950e-03 0.0050601470 1445.669 2.99712133 1.760000e-06

1821 281.8340 3.306273e-03 1.246260e-08 1.489144e+00 1.279473e-03 0.0112801967 1445.649 4.13796806 1.200000e-07

1822 281.8341 8.556077e-03 1.329344e-08 3.329498e+00 1.242009e-03 0.0185068194 1445.587 5.18065405 0.000000e+00

1823 281.8342 8.637582e-03 5.317378e-08 3.157481e+00 1.204188e-03 0.0230263714 1445.552 7.35564423 1.120000e-06

1824 281.8343 6.991618e-03 2.658689e-08 2.560750e+00 1.173574e-03 0.0250931289 1445.645 7.17890310 1.080000e-05

1825 281.8344 6.989051e-03 -2.658689e-08 2.683303e+00 1.142971e-03 0.0248420089 1446.932 6.86341763 1.223600e-04

1826 281.8345 3.417790e-03 -1.329344e-08 1.656963e+00 1.128005e-03 0.0147108389 1451.911 3.07134867 4.612800e-04

1827 281.8346 1.894304e-03 -9.970083e-09 1.121685e+00 1.119711e-03 0.0053208633 1451.922 3.42499447 0.000000e+00

1828 281.8347 1.411797e-03 1.329344e-08 9.599400e-01 1.113529e-03 0.0038409093 1451.928 1.11546314 0.000000e+00

1829 281.8348 1.646445e-03 0.000000e+00 1.208815e+00 1.106320e-03 0.0061567128 1451.934 1.58985460 3.640001e-06

1830 281.8350 2.250911e-03 -6.646722e-09 1.539347e+00 1.083244e-03 0.0080339229 1451.859 2.02445483 0.000000e+00

1831 281.8351 1.342802e-03 9.970083e-09 1.019665e+00 1.077363e-03 0.0036038288 1451.862 2.63206673 0.000000e+00

1832 281.8352 1.730253e-03 1.994017e-08 1.239571e+00 1.069787e-03 0.0044520255 1451.861 1.57781315 0.000000e+00

1833 281.8353 1.740956e-03 3.323361e-09 1.246188e+00 1.062164e-03 0.0061988332 1451.853 2.76957583 0.000000e+00

1834 281.8354 2.120046e-03 6.646722e-09 1.438965e+00 1.052881e-03 0.0087538688 1451.842 2.85966206 0.000000e+00

1835 281.8355 2.405987e-03 3.323361e-08 1.613586e+00 1.042346e-03 0.0103918901 1451.824 3.04308414 0.000000e+00

1836 281.8356 3.260478e-03 -6.646722e-09 1.991406e+00 1.028070e-03 0.0147599420 1451.776 5.15315151 0.000000e+00

1837 281.8357 4.190167e-03 2.658689e-08 2.458299e+00 1.009722e-03 0.0185577720 1451.679 4.67405558 0.000000e+00

1838 281.8358 3.876547e-03 -8.640740e-08 2.526186e+00 9.927485e-04 0.0141140297 1451.634 3.13525772 0.000000e+00

1839 281.8359 3.394241e-03 6.646722e-09 2.441554e+00 9.624260e-04 0.0096718622 1451.614 3.12343931 0.000000e+00

1840 281.8360 3.362895e-03 1.329344e-08 2.391529e+00 9.477008e-04 0.0088059753 1451.617 4.24665880 0.000000e+00

1841 281.8361 4.389223e-03 1.994017e-08 2.869663e+00 9.284817e-04 0.0136126997 1451.615 5.26711750 0.000000e+00

1842 281.8362 4.653888e-03 5.317378e-08 3.057135e+00 9.081039e-04 0.0136918919 1451.625 5.08033943 0.000000e+00

1843 281.8363 4.791596e-03 2.658689e-08 3.216697e+00 8.871231e-04 0.0190446116 1451.568 6.07344437 0.000000e+00

1844 281.8364 4.945350e-03 3.988033e-08 3.530246e+00 8.654690e-04 0.0207669139 1451.459 4.93875790 0.000000e+00

1845 281.8365 4.003423e-03 1.329344e-08 3.180790e+00 8.479394e-04 0.0154502587 1451.425 4.70398283 0.000000e+00

1846 281.8365 2.372161e-03 -1.329344e-08 2.179010e+00 8.375525e-04 0.0102276811 1451.431 4.15416098 0.000000e+00

1847 281.8366 2.580865e-03 1.994017e-08 2.384696e+00 8.262518e-04 0.0071262214 1451.437 3.84499168 0.000000e+00

1848 281.8367 3.660004e-03 1.063476e-07 3.238804e+00 8.102258e-04 0.0070704524 1451.436 3.98786664 0.000000e+00

1849 281.8368 3.594958e-03 3.988033e-08 3.262727e+00 7.944846e-04 0.0076514035 1451.435 4.00393343 0.000000e+00

1850 281.8369 3.433944e-03 2.658689e-08 3.236771e+00 7.794485e-04 0.0086017670 1451.431 3.99652314 0.000000e+00

1851 281.8369 3.252260e-03 7.976067e-08 3.124139e+00 7.652080e-04 0.0154870739 1451.386 5.08509064 0.000000e+00

1852 281.8370 2.911595e-03 9.305412e-08 2.983344e+00 7.524590e-04 0.0181875061 1451.293 4.15051222 0.000000e+00

1853 281.8371 2.622917e-03 2.658689e-08 2.962216e+00 7.409743e-04 0.0109480498 1451.264 3.12148905 0.000000e+00

1854 281.8372 2.580191e-03 7.976067e-08 3.018768e+00 7.296764e-04 0.0060532973 1451.262 3.16285634 0.000000e+00

1855 281.8372 2.240416e-03 -1.329344e-08 2.800374e+00 7.198664e-04 0.0054047331 1451.259 2.18685555 0.000000e+00

1856 281.8373 1.893822e-03 3.323361e-08 2.528012e+00 7.115740e-04 0.0048233918 1451.257 2.15392804 0.000000e+00

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2005 281.8358 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0210277382 1476.759 7.40586948 0.000000e+00

2006 281.8357 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0228583310 1476.818 8.49790382 0.000000e+00

2007 281.8356 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0287640914 1476.835 10.25522900 0.000000e+00

2008 281.8355 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0298332442 1476.794 8.37949467 0.000000e+00

2009 281.8354 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0272523779 1476.704 8.06899357 0.000000e+00

2010 281.8353 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0244387295 1476.558 5.85756540 0.000000e+00

2011 281.8352 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0173377842 1476.545 5.37327480 2.280001e-06

2012 281.8351 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0090758344 1476.588 4.32194901 1.360000e-06

2013 281.8351 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0067505590 1476.601 3.60496902 2.400000e-07

2014 281.8350 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0044404413 1476.613 3.18670464 9.200000e-07

2015 281.8349 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0019515395 1476.780 2.87602782 1.480000e-05

2016 281.8348 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0020449373 1476.913 3.17128134 1.144000e-05

2017 281.8347 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0095047783 1477.090 3.64136481 1.968001e-05

2018 281.8346 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0158468671 1477.093 4.13870764 9.519998e-06

2019 281.8345 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0172472131 1477.365 5.32436752 3.180001e-05

2020 281.8344 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0121460333 1477.470 5.72271013 9.040000e-06

2021 281.8343 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0109821195 1477.976 5.27357721 4.527999e-05

2022 281.8342 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0123095065 1478.210 5.26930666 2.159999e-05

2023 281.8341 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0103008356 1478.816 3.92164516 5.651999e-05

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2025 281.8339 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0158264562 1479.578 4.14805889 2.456000e-05

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2028 281.8336 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0031763257 1480.756 1.84508252 3.391999e-05

2029 281.8335 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0013709903 1481.686 2.17501521 8.544000e-05

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2031 281.8333 0.000000e+00 0.000000e+00 0.000000e+00 1.093595e-02 0.0062164739 1484.594 4.03036118 1.316400e-04

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2225 270.0672 0.0030768914 94796.91 2.152064e+02 254.6881 2011-02-03 15:00:00 2011-02-03 15:00:00 2011 Feb

2226 272.7442 0.0038082192 94735.80 1.915439e+02 301.9012 2011-02-03 18:00:00 2011-02-03 18:00:00 2011 Feb

2227 270.0706 0.0030886210 94687.94 1.167590e+02 260.0737 2011-02-03 21:00:00 2011-02-03 21:00:00 2011 Feb

2228 268.0802 0.0025917692 94713.59 0.000000e+00 244.9628 2011-02-04 00:00:00 2011-02-04 00:00:00 2011 Feb

2229 267.9387 0.0025282546 94551.04 0.000000e+00 234.7711 2011-02-04 03:00:00 2011-02-04 03:00:00 2011 Feb

2230 269.2729 0.0028003750 94343.68 0.000000e+00 252.2084 2011-02-04 06:00:00 2011-02-04 06:00:00 2011 Feb

2231 269.9844 0.0030259404 94117.48 0.000000e+00 235.1872 2011-02-04 09:00:00 2011-02-04 09:00:00 2011 Feb

2232 269.6793 0.0029976165 94260.95 2.044474e+01 234.8027 2011-02-04 12:00:00 2011-02-04 12:00:00 2011 Feb

2233 272.8847 0.0038618974 94157.51 2.127381e+02 279.8215 2011-02-04 15:00:00 2011-02-04 15:00:00 2011 Feb

2234 273.4541 0.0041417978 93947.17 2.032708e+02 309.7057 2011-02-04 18:00:00 2011-02-04 18:00:00 2011 Feb

2235 272.2846 0.0036480983 93790.65 6.924097e+01 290.6950 2011-02-04 21:00:00 2011-02-04 21:00:00 2011 Feb

2236 271.6302 0.0034791974 93584.61 0.000000e+00 269.2793 2011-02-05 00:00:00 2011-02-05 00:00:00 2011 Feb

2237 271.1750 0.0034672171 93316.84 0.000000e+00 281.8433 2011-02-05 03:00:00 2011-02-05 03:00:00 2011 Feb

2238 272.8351 0.0039326721 93092.10 0.000000e+00 283.6425 2011-02-05 06:00:00 2011-02-05 06:00:00 2011 Feb

2239 272.6906 0.0038880212 93031.72 0.000000e+00 285.0071 2011-02-05 09:00:00 2011-02-05 09:00:00 2011 Feb

2240 273.2341 0.0040902072 93165.03 1.627390e+01 281.0303 2011-02-05 12:00:00 2011-02-05 12:00:00 2011 Feb

2241 273.4515 0.0041663367 93377.14 1.627760e+02 300.3284 2011-02-05 15:00:00 2011-02-05 15:00:00 2011 Feb

2242 273.6138 0.0042090858 93527.75 1.989081e+02 302.9036 2011-02-05 18:00:00 2011-02-05 18:00:00 2011 Feb

2243 271.9101 0.0036580814 93786.39 6.698969e+01 306.0642 2011-02-05 21:00:00 2011-02-05 21:00:00 2011 Feb

2244 269.0389 0.0029128152 94013.80 0.000000e+00 282.2002 2011-02-06 00:00:00 2011-02-06 00:00:00 2011 Feb

2245 267.2344 0.0025215475 94162.14 0.000000e+00 245.7378 2011-02-06 03:00:00 2011-02-06 03:00:00 2011 Feb

2246 268.0400 0.0026786707 94297.26 0.000000e+00 252.6473 2011-02-06 06:00:00 2011-02-06 06:00:00 2011 Feb

2247 268.0518 0.0026834437 94602.61 0.000000e+00 274.0772 2011-02-06 09:00:00 2011-02-06 09:00:00 2011 Feb

2248 267.4416 0.0025456315 94944.23 2.029625e+01 261.6571 2011-02-06 12:00:00 2011-02-06 12:00:00 2011 Feb

2249 269.2769 0.0028418461 95131.61 1.814464e+02 273.9989 2011-02-06 15:00:00 2011-02-06 15:00:00 2011 Feb

2250 268.5204 0.0026275008 95269.95 2.169627e+02 275.5862 2011-02-06 18:00:00 2011-02-06 18:00:00 2011 Feb

2251 263.5554 0.0017556582 95549.92 6.827084e+01 264.3518 2011-02-06 21:00:00 2011-02-06 21:00:00 2011 Feb

2252 259.6542 0.0012617290 95637.02 0.000000e+00 207.0840 2011-02-07 00:00:00 2011-02-07 00:00:00 2011 Feb

2253 259.0348 0.0012031476 95644.90 0.000000e+00 210.7554 2011-02-07 03:00:00 2011-02-07 03:00:00 2011 Feb

2254 259.1863 0.0012290670 95510.92 0.000000e+00 219.1742 2011-02-07 06:00:00 2011-02-07 06:00:00 2011 Feb

2255 257.9782 0.0010894684 95409.36 0.000000e+00 213.3721 2011-02-07 09:00:00 2011-02-07 09:00:00 2011 Feb

2256 256.4650 0.0009375957 95224.12 3.001711e+01 213.5484 2011-02-07 12:00:00 2011-02-07 12:00:00 2011 Feb

2257 257.7605 0.0010236580 95302.22 2.136901e+02 227.0750 2011-02-07 15:00:00 2011-02-07 15:00:00 2011 Feb

2258 257.7376 0.0010004143 95251.51 2.219549e+02 244.0224 2011-02-07 18:00:00 2011-02-07 18:00:00 2011 Feb

2259 253.5536 0.0006902295 95587.66 8.176122e+01 220.5957 2011-02-07 21:00:00 2011-02-07 21:00:00 2011 Feb

2260 251.1163 0.0005353479 95799.90 0.000000e+00 170.3344 2011-02-08 00:00:00 2011-02-08 00:00:00 2011 Feb

2261 249.8243 0.0004763290 96064.96 0.000000e+00 170.3294 2011-02-08 03:00:00 2011-02-08 03:00:00 2011 Feb

2262 250.1231 0.0004823758 96086.38 0.000000e+00 172.1015 2011-02-08 06:00:00 2011-02-08 06:00:00 2011 Feb

2263 250.2296 0.0004829357 96114.80 0.000000e+00 154.4992 2011-02-08 09:00:00 2011-02-08 09:00:00 2011 Feb

2264 251.7209 0.0005491929 96144.84 3.343000e+01 156.3819 2011-02-08 12:00:00 2011-02-08 12:00:00 2011 Feb

2265 257.1729 0.0009027208 96156.63 1.795329e+02 216.6830 2011-02-08 15:00:00 2011-02-08 15:00:00 2011 Feb

2266 260.8025 0.0012798681 95884.21 3.921863e+02 192.1627 2011-02-08 18:00:00 2011-02-08 18:00:00 2011 Feb

2267 257.8181 0.0010085647 95881.78 6.181757e+01 245.9598 2011-02-08 21:00:00 2011-02-08 21:00:00 2011 Feb

2268 256.5812 0.0009001807 95846.03 0.000000e+00 176.8075 2011-02-09 00:00:00 2011-02-09 00:00:00 2011 Feb

2269 256.4043 0.0008859075 95859.46 0.000000e+00 173.3874 2011-02-09 03:00:00 2011-02-09 03:00:00 2011 Feb

2270 256.1628 0.0008640427 95708.40 0.000000e+00 172.6170 2011-02-09 06:00:00 2011-02-09 06:00:00 2011 Feb

2271 255.1362 0.0007818713 95614.95 0.000000e+00 171.3881 2011-02-09 09:00:00 2011-02-09 09:00:00 2011 Feb

2272 254.8558 0.0007681514 95605.53 3.538203e+01 169.3896 2011-02-09 12:00:00 2011-02-09 12:00:00 2011 Feb

[ reached 'max' / getOption("max.print") -- omitted 10868 rows ]

>

> nc\_data\_combined\_by\_year <- nc\_data\_combined %>% group\_by(year) %>% summarize(across(everything), mean, na.rm = TRUE)

Error in `summarize()`:

ℹ In argument: `across(everything)`.

Caused by error in `across()`:

! Can't select columns that don't exist.

✖ Column `everything` doesn't exist.

Run `rlang::last\_trace()` to see where the error occurred.

>

>

> nc\_data\_combined\_by\_year <- nc\_data\_combined %>% group\_by(year) %>% summarize(across(everything(), mean, na.rm = TRUE)

+ )

Warning message:

There were 11 warnings in `summarize()`.

The first warning was:

ℹ In argument: `across(everything(), mean, na.rm = TRUE)`.

ℹ In group 1: `year = "2010"`.

Caused by warning:

! The `...` argument of `across()` is deprecated as of dplyr 1.1.0.

Supply arguments directly to `.fns` through an anonymous function instead.

# Previously

across(a:b, mean, na.rm = TRUE)

# Now

across(a:b, \(x) mean(x, na.rm = TRUE))

This warning is displayed once every 8 hours.

Call `lifecycle::last\_lifecycle\_warnings()` to see where this warning was generated.

ℹ Run `dplyr::last\_dplyr\_warnings()` to see the 10 remaining warnings.

>

> nc\_data\_combined\_by\_year <- nc\_data\_combined %>% group\_by(year) %>% summarize(across(everything(), mean, na.rm = TRUE))

Warning message:

There were 10 warnings in `summarize()`.

The first warning was:

ℹ In argument: `across(everything(), mean, na.rm = TRUE)`.

ℹ In group 1: `year = "2010"`.

Caused by warning in `mean.default()`:

! argument is not numeric or logical: returning NA

ℹ Run `dplyr::last\_dplyr\_warnings()` to see the 9 remaining warnings.

>

> str(as.data.frame(nc\_data\_combined\_by\_year))

'data.frame': 5 obs. of 44 variables:

$ year : chr "2010" "2011" "2012" "2013" ...

$ time\_bnds : num 5609011 6048257 6574837 7101356 7582694

$ Swnet\_tavg : num 141 125 132 131 148

$ Lwnet\_tavg : num -50.9 -47.8 -53 -51.3 -54.2

$ Qle\_tavg : num 62.8 46.4 44.7 40.7 52.7

$ Qh\_tavg : num 28.3 26.9 33.8 37.3 34.6

$ Qg\_tavg : num -1.695 0.634 -0.641 -0.952 3.579

$ Snowf\_tavg : num 2.48e-06 3.87e-06 1.40e-06 3.96e-06 3.95e-06

$ Rainf\_tavg : num 2.37e-05 1.59e-05 1.26e-05 1.84e-05 1.90e-05

$ Evap\_tavg : num 2.56e-05 1.93e-05 1.83e-05 1.70e-05 2.19e-05

$ Qs\_acc : num 0.01571 0.01603 0.00728 0.01544 0.0182

$ Qsb\_acc : num 0.00 5.14e-06 0.00 0.00 0.00

$ Qsm\_acc : num 0.00479 0.05129 0.01047 0.03119 0.04144

$ SnowT\_tavg : num 285 280 283 280 282

$ AvgSurfT\_inst : num 285 280 283 280 282

$ Albedo\_inst : num 21.5 23.7 19.3 21.5 21.3

$ SWE\_inst : num 2.808 9.429 0.855 2.676 2.544

$ SnowDepth\_inst : num 0.018 0.0404 0.0057 0.0178 0.0163

$ SoilMoist\_S\_inst : num 4.8 4.98 4.44 4.59 4.8

$ SoilMoist\_RZ\_inst : num 236 244 219 224 235

$ SoilMoist\_P\_inst : num 1466 1515 1368 1346 1445

$ SoilTMP0\_10cm\_inst : num 286 281 283 280 282

$ SoilTMP10\_29cm\_inst : num 286 281 283 280 281

$ SoilTMP29\_68cm\_inst : num 286 281 283 280 280

$ SoilTMP68\_144cm\_inst : num 285 281 283 280 279

$ SoilTMP144\_295cm\_inst : num 284 281 282 281 279

$ SoilTMP295\_1295cm\_inst: num 282 282 282 282 281

$ ECanop\_tavg : num 6.02 4.33 4.21 4.47 5.3

$ TVeg\_tavg : num 5.48 3.48 2.36 2.43 3.54

$ ESoil\_tavg : num 51.3 38.6 38.1 33.8 43.8

$ CanopInt\_inst : num 0.0178 0.0187 0.0129 0.0161 0.0175

$ ACond\_tavg : num 0.0208 0.0195 0.0203 0.02 0.0213

$ TWS\_inst : num 1469 1524 1368 1348 1447

$ Wind\_f\_inst : num 4.51 4.75 4.88 4.77 5.04

$ Rainf\_f\_tavg : num 2.62e-05 1.98e-05 1.40e-05 2.24e-05 2.29e-05

$ Tair\_f\_inst : num 285 280 283 280 282

$ Qair\_f\_inst : num 0.00655 0.00577 0.00572 0.00538 0.00576

$ Psurf\_f\_inst : num 94411 94436 94419 94562 94471

$ SWdown\_f\_tavg : num 171 155 159 161 182

$ LWdown\_f\_tavg : num 321 299 304 293 300

$ datetime : POSIXct, format: "2010-08-31 06:30:39" "2011-07-02 07:17:26" "2012-07-01 23:37:20" "2013-07-02 14:56:28" ...

$ date : Date, format: "2010-08-30" "2011-07-01" "2012-07-01" "2013-07-02" ...

$ time : num NA NA NA NA NA

$ month : num NA NA NA NA NA

>

> nc\_data\_combined\_by\_year <- nc\_data\_combined %>% group\_by(year, month) %>% summarize(across(everything(), mean, na.rm = TRUE))

`summarise()` has grouped output by 'year'. You can override using the `.groups` argument.

Warning message:

There were 55 warnings in `summarize()`.

The first warning was:

ℹ In argument: `across(everything(), mean, na.rm = TRUE)`.

ℹ In group 1: `year = "2010"`, `month = "Apr"`.

Caused by warning in `mean.default()`:

! argument is not numeric or logical: returning NA

ℹ Run `dplyr::last\_dplyr\_warnings()` to see the 54 remaining warnings.

>

> nc\_data\_combined\_by\_year <- nc\_data\_combined %>% group\_by(year) %>% summarize(across(everything(), mean, na.rm = TRUE))

Warning message:

There were 10 warnings in `summarize()`.

The first warning was:

ℹ In argument: `across(everything(), mean, na.rm = TRUE)`.

ℹ In group 1: `year = "2010"`.

Caused by warning in `mean.default()`:

! argument is not numeric or logical: returning NA

ℹ Run `dplyr::last\_dplyr\_warnings()` to see the 9 remaining warnings.

> nc\_data\_combined\_by\_year\_month <- nc\_data\_combined %>% group\_by(year, month) %>% summarize(across(everything(), mean, na.rm = TRUE))

`summarise()` has grouped output by 'year'. You can override using the `.groups` argument.

Warning message:

There were 55 warnings in `summarize()`.

The first warning was:

ℹ In argument: `across(everything(), mean, na.rm = TRUE)`.

ℹ In group 1: `year = "2010"`, `month = "Apr"`.

Caused by warning in `mean.default()`:

! argument is not numeric or logical: returning NA

ℹ Run `dplyr::last\_dplyr\_warnings()` to see the 54 remaining warnings.

> str(as.data.frame(nc\_data\_combined\_by\_year\_month))

'data.frame': 55 obs. of 44 variables:

$ year : chr "2010" "2010" "2010" "2010" ...

$ month : chr "Apr" "Aug" "Dec" "Jul" ...

$ time\_bnds : num 5432760 5587650 5763291 5543010 5499090 ...

$ Swnet\_tavg : num 268.5 196.4 24.7 220 223.4 ...

$ Lwnet\_tavg : num -45.5 -63.8 -33.4 -58.6 -56.3 ...

$ Qle\_tavg : num 119.09 100.08 1.81 117.62 102.82 ...

$ Qh\_tavg : num 109.504 28.18 -0.231 36.614 55.168 ...

$ Qg\_tavg : num -5.42 4.35 -13.52 7.18 9.06 ...

$ Snowf\_tavg : num 0.0 0.0 1.4e-05 0.0 0.0 ...

$ Rainf\_tavg : num 2.85e-04 1.96e-05 1.84e-10 3.45e-05 4.76e-05 ...

$ Evap\_tavg : num 4.83e-05 4.06e-05 1.76e-06 4.77e-05 4.17e-05 ...

$ Qs\_acc : num 0.177464 0.009816 0.000606 0.015814 0.031922 ...

$ Qsb\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ Qsm\_acc : num 0 0 0.0216 0 0 ...

$ SnowT\_tavg : num 288 297 263 297 294 ...

$ AvgSurfT\_inst : num 284 297 263 297 294 ...

$ Albedo\_inst : num 18.7 19.4 44 18.6 18.4 ...

$ SWE\_inst : num 0 0 19.5 0 0 ...

$ SnowDepth\_inst : num 0 0 0.124 0 0 ...

$ SoilMoist\_S\_inst : num 5.83 4.48 4.82 4.62 5.13 ...

$ SoilMoist\_RZ\_inst : num 248 224 235 229 250 ...

$ SoilMoist\_P\_inst : num 1493 1457 1432 1490 1528 ...

$ SoilTMP0\_10cm\_inst : num 288 297 268 297 293 ...

$ SoilTMP10\_29cm\_inst : num 284 296 270 296 292 ...

$ SoilTMP29\_68cm\_inst : num 281 294 273 293 289 ...

$ SoilTMP68\_144cm\_inst : num 278 291 277 289 285 ...

$ SoilTMP144\_295cm\_inst : num 277 286 283 283 280 ...

$ SoilTMP295\_1295cm\_inst: num 281 281 282 281 281 ...

$ ECanop\_tavg : num 12.0208 5.9516 0.0379 13.0622 13.7884 ...

$ TVeg\_tavg : num 1.61 9.98 6.40e-05 1.50e+01 1.24e+01 ...

$ ESoil\_tavg : num 105.45 84.15 1.77 89.54 76.64 ...

$ CanopInt\_inst : num 0.01302 0.0163 0.00426 0.02764 0.03294 ...

$ ACond\_tavg : num 0.0328 0.0211 0.0126 0.0245 0.0265 ...

$ TWS\_inst : num 1493 1457 1451 1490 1528 ...

$ Wind\_f\_inst : num 8.83 4.09 4.15 4.29 4.5 ...

$ Rainf\_f\_tavg : num 2.85e-04 1.96e-05 1.40e-05 3.45e-05 4.76e-05 ...

$ Tair\_f\_inst : num 283 297 264 297 293 ...

$ Qair\_f\_inst : num 0.00543 0.00949 0.00193 0.00932 0.00925 ...

$ Psurf\_f\_inst : num 92119 94210 94693 94339 94332 ...

$ SWdown\_f\_tavg : num 324.4 236.4 44.4 263.2 267.1 ...

$ LWdown\_f\_tavg : num 335 373 233 381 361 ...

$ datetime : POSIXct, format: "2010-04-30 21:00:00" "2010-08-16 10:30:00" "2010-12-16 09:50:54" "2010-07-16 10:30:00" ...

$ date : Date, format: "2010-04-30" "2010-08-16" "2010-12-15" "2010-07-16" ...

$ time : num NA NA NA NA NA NA NA NA NA NA ...

>

> nc\_data\_combined$month <- as.factor(nc\_data\_combined$month, levels = c("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"), labels = c("J", "F", "M", "A", "M", "J", "J", "A", "S", "O", "N", "D"))

Error in as.factor(nc\_data\_combined$month, levels = c("Jan", "Feb", "Mar", :

unused arguments (levels = c("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"), labels = c("J", "F", "M", "A", "M", "J", "J", "A", "S", "O", "N", "D"))

>

> nc\_data\_combined$month <- factor(nc\_data\_combined$month, levels = c("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"), labels = c("J", "F", "M", "A", "M", "J", "J", "A", "S", "O", "N", "D"))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free", ncol = 5)

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5)

>

>

> nc\_data\_combined\_preseason <- nc\_data\_combined %>% filter(month %in% c("Jan", "Feb", "Mar", "Apr"))

> dim(nc\_data\_combined\_preseason)

[1] 0 44

>

> unique(nc\_data\_combined$month)

[1] A M J S O N D F

Levels: J F M A S O N D

>

> nc\_data\_combined <- nc\_data\_combined %>% select(-month)

>

> dim(nc\_data\_combined)

[1] 13140 43

>

> nc\_data\_combined$month <- factor(nc\_data\_combined$month, levels = c("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"))

Error in `$<-.data.frame`(`\*tmp\*`, month, value = integer(0)) :

replacement has 0 rows, data has 13140

>

> nc\_data\_combined$month <- format(nc\_data\_combined$date, "%b")

>

> nc\_data\_combined$month <- factor(nc\_data\_combined$month, levels = c("Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5)

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 16, angle = 45), axis.title.y = element\_text(size = 15, hjust = 0.8), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

Warning message:

The `size` argument of `element\_rect()` is deprecated as of ggplot2 3.4.0.

ℹ Please use the `linewidth` argument instead.

This warning is displayed once every 8 hours.

Call `lifecycle::last\_lifecycle\_warnings()` to see where this warning was generated.

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 16, angle = 45, vjust = 1), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 16, angle = 45, vjust = -1), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 14, angle = 45, vjust = -0.5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 13, angle = 45, vjust = 0), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 12, angle = 45, vjust = .2), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + labs(x = "Month", y = "Evapotranspiration (Kg/m2s)") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Evap\_tavg)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + labs(x = "Month", y = "Evapotranspiration (Kg/m2s) in Mandan, ND") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

2025-09-30 11:57:30.748 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 11:57:30.877 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 11:57:41.836 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 11:57:43.441 R[28951:2084211] +[CATransaction synchronize] called within transaction

> nc\_data\_combined %>% ggplot(aes(x = month, y = SnowDepth\_inst)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + labs(x = "Month", y = "Snow depth (m) in Mandan, ND") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

2025-09-30 12:00:26.395 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:00:26.486 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:00:26.510 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:00:31.304 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:00:32.458 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

> nc\_data\_combined %>% ggplot(aes(x = month, y = Psurf\_f\_inst)) + geom\_boxplot() + facet\_wrap(~ year, scales = "free\_x", ncol = 5) + labs(x = "Month", y = "Pressure (Pa) in Mandan, ND") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

2025-09-30 12:01:53.416 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:01:53.522 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

>

> str(as.data.frame(nc\_data\_combined))

'data.frame': 13140 obs. of 44 variables:

$ time\_bnds : num 5432760 5432940 5433120 5433300 5433480 ...

$ Swnet\_tavg : num 268.5 24.7 0 0 0.2 ...

$ Lwnet\_tavg : num -45.48 -19.23 -34.09 -39.74 -6.41 ...

$ Qle\_tavg : num 119.1 54 30.7 21.7 23.6 ...

$ Qh\_tavg : num 109.5 3.13 -18.02 -24.35 -5.97 ...

$ Qg\_tavg : num -5.42 -51.51 -46.73 -37.11 -23.81 ...

$ Snowf\_tavg : num 0 0 0 0 0 0 0 0 0 0 ...

$ Rainf\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Evap\_tavg : num 4.83e-05 2.19e-05 1.24e-05 8.81e-06 9.56e-06 ...

$ Qs\_acc : num 0.1775 0.0413 0 0 0 ...

$ Qsb\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ Qsm\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowT\_tavg : num 288 282 280 279 279 ...

$ AvgSurfT\_inst : num 284 280 279 279 279 ...

$ Albedo\_inst : num 18.7 23.2 NaN NaN 21.7 ...

$ SWE\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SnowDepth\_inst : num 0 0 0 0 0 0 0 0 0 0 ...

$ SoilMoist\_S\_inst : num 5.83 5.33 5.06 5.04 5.03 ...

$ SoilMoist\_RZ\_inst : num 248 248 248 248 248 ...

$ SoilMoist\_P\_inst : num 1493 1494 1494 1494 1494 ...

$ SoilTMP0\_10cm\_inst : num 288 285 283 281 281 ...

$ SoilTMP10\_29cm\_inst : num 284 284 284 283 283 ...

$ SoilTMP29\_68cm\_inst : num 281 281 281 281 282 ...

$ SoilTMP68\_144cm\_inst : num 278 279 279 279 279 ...

$ SoilTMP144\_295cm\_inst : num 277 277 277 277 277 ...

$ SoilTMP295\_1295cm\_inst: num 281 281 281 281 281 ...

$ ECanop\_tavg : num 12.021 11.152 4.207 0.524 0.25 ...

$ TVeg\_tavg : num 1.61 9.53e-03 5.32e-07 5.32e-08 0.00 ...

$ ESoil\_tavg : num 105.5 42.8 26.5 21.2 23.3 ...

$ CanopInt\_inst : num 0.01302 0.0243 0.00588 0.00358 0.00248 ...

$ ACond\_tavg : num 0.0328 0.0345 0.0342 0.0341 0.0354 ...

$ TWS\_inst : num 1493 1494 1494 1494 1494 ...

$ Wind\_f\_inst : num 8.83 7.04 8.98 7.42 8.9 ...

$ Rainf\_f\_tavg : num 0.000285 0.000078 0 0 0 ...

$ Tair\_f\_inst : num 283 281 279 279 279 ...

$ Qair\_f\_inst : num 0.00543 0.0049 0.00476 0.00479 0.00468 ...

$ Psurf\_f\_inst : num 92119 92272 92135 92040 92065 ...

$ SWdown\_f\_tavg : num 324.433 30.904 0 0 0.257 ...

$ LWdown\_f\_tavg : num 335 327 301 291 326 ...

$ datetime : POSIXct, format: "2010-04-30 21:00:00" "2010-05-01 00:00:00" "2010-05-01 03:00:00" "2010-05-01 06:00:00" ...

$ date : Date, format: "2010-04-30" "2010-05-01" "2010-05-01" "2010-05-01" ...

$ time : chr "21:00:00" "00:00:00" "03:00:00" "06:00:00" ...

$ year : chr "2010" "2010" "2010" "2010" ...

$ month : Factor w/ 12 levels "Jan","Feb","Mar",..: 4 5 5 5 5 5 5 5 5 5 ...

> str(as.data.frame(wheat\_data))

'data.frame': 191 obs. of 17 variables:

$ year : int 2011 2011 2011 2011 2011 2011 2011 2011 2011 2011 ...

$ rep : int 1 1 1 1 1 1 1 1 1 1 ...

$ strip : int 2 2 2 1 1 1 3 3 3 4 ...

$ field\_stag\_start: int 1 1 1 1 1 1 1 1 1 1 ...

$ perennial\_trt : chr "Alfalfa" "IWG" "MIX" "Alfalfa" ...

$ yr\_in\_perennial : int 2 2 2 3 3 3 4 4 4 5 ...

$ ca : num 0.316 0.298 0.329 0.325 0.395 0.339 0.37 0.353 0.35 0.407 ...

$ fe : num 36.8 35.5 35.3 35.1 37.7 ...

$ k : num 4.29 4.45 4.56 4.46 5.05 ...

$ mg : num 2.06 2.25 2.2 2.22 2.47 ...

$ mn : num 49.3 46.6 38.3 46 44.2 ...

$ ni : num 0.434 0.494 0.762 0.542 0.841 0.461 0.277 0.682 0.451 0.082 ...

$ p : num 4.85 5.03 4.87 4.75 5.23 ...

$ s : num 1.59 1.58 1.59 1.5 1.65 ...

$ zn : num 36.2 41.9 40.1 33.2 42.3 ...

$ protein : num 164 160 153 154 145 ...

$ tkw : num 21.4 21.8 19.3 22 22.4 ...

>

>

> nc\_data\_combined\_preseason <- nc\_data\_combined %>% filter(month %in% c("Jan", "Feb", "Mar", "Apr", "May"))

> dim(nc\_data\_combined\_preseason)

[1] 5080 44

> nc\_data\_combined\_season <- nc\_data\_combined %>% filter(month %in% c("Jun", "Jul", "Aug", "Sep"))

>

> nc\_data\_combined\_preseason <- nc\_data\_combined %>% filter(month %in% c("Jan", "Feb", "Mar", "Apr"))

> nc\_data\_combined\_season <- nc\_data\_combined %>% filter(month %in% c("May", "Jun", "Jul", "Aug"))

> nc\_data\_combined\_postseason <- nc\_data\_combined %>% filter(month %in% c("Sep", "Oct", "Nov", "Dec"))

2025-09-30 12:15:26.686 R[28951:2084211] -[NSDocumentController fileExtensionsFromType:] is deprecated, and does not work when passed a uniform type identifier (UTI). If the application didn't invoke it directly then the problem is probably that some other NSDocument or NSDocumentController method is getting confused by a UTI that's not actually declared anywhere. Maybe it should be declared in the UTExportedTypeDeclarations section of this app's Info.plist but is not. The alleged UTI in question is "public.text".

2025-09-30 12:15:26.759 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.809 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.849 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.876 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.894 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.922 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.945 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.974 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:26.986 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:27.009 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:27.020 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 12:15:27.157 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

> nc\_data\_combined\_preseason\_summary <- nc\_data\_combined\_preseason %>% summarize(across(-c(time\_bnds, datetime, date, time, year, month), mean()))

Error in `summarize()`:

ℹ In argument: `across(-c(time\_bnds, datetime, date, time, year, month), mean())`.

Caused by error in `mean.default()`:

! argument "x" is missing, with no default

Run `rlang::last\_trace()` to see where the error occurred.

>

> nc\_data\_combined\_preseason\_summary <- nc\_data\_combined\_preseason %>% summarize(across(-c(time\_bnds, datetime, date, time, year, month), mean(.)))

Error in `summarize()`:

ℹ In argument: `across(-c(time\_bnds, datetime, date, time, year, month), mean(.))`.

Caused by error in `across()`:

! `.fns` must be a function, a formula, or a list of functions/formulas.

Run `rlang::last\_trace()` to see where the error occurred.

>

> nc\_data\_combined\_preseason\_summary <- nc\_data\_combined\_preseason %>% summarize(across(-c(time\_bnds, datetime, date, time, year, month), mean(x)))

Error in `summarize()`:

ℹ In argument: `across(-c(time\_bnds, datetime, date, time, year, month), mean(x))`.

Caused by error:

! object 'x' not found

Run `rlang::last\_trace()` to see where the error occurred.

> nc\_data\_combined\_preseason\_summary <- nc\_data\_combined\_preseason %>% summarize(across(-c(time\_bnds, datetime, date, time, year, month), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

> str(as.data.frame(nc\_data\_combined\_preseason\_summary))

'data.frame': 1 obs. of 38 variables:

$ mean\_Swnet\_tavg : num 95.3

$ mean\_Lwnet\_tavg : num -43.8

$ mean\_Qle\_tavg : num 18.8

$ mean\_Qh\_tavg : num 26.8

$ mean\_Qg\_tavg : num 0.136

$ mean\_Snowf\_tavg : num 7.91e-06

$ mean\_Rainf\_tavg : num 6.99e-06

$ mean\_Evap\_tavg : num 8.65e-06

$ mean\_Qs\_acc : num 0.0121

$ mean\_Qsb\_acc : num 0

$ mean\_Qsm\_acc : num 0.089

$ mean\_SnowT\_tavg : num 271

$ mean\_AvgSurfT\_inst : num 271

$ mean\_Albedo\_inst : num 26.1

$ mean\_SWE\_inst : num 10.3

$ mean\_SnowDepth\_inst : num 0.0509

$ mean\_SoilMoist\_S\_inst : num 4.84

$ mean\_SoilMoist\_RZ\_inst : num 236

$ mean\_SoilMoist\_P\_inst : num 1415

$ mean\_SoilTMP0\_10cm\_inst : num 272

$ mean\_SoilTMP10\_29cm\_inst : num 272

$ mean\_SoilTMP29\_68cm\_inst : num 272

$ mean\_SoilTMP68\_144cm\_inst : num 274

$ mean\_SoilTMP144\_295cm\_inst : num 277

$ mean\_SoilTMP295\_1295cm\_inst: num 282

$ mean\_ECanop\_tavg : num 1.31

$ mean\_TVeg\_tavg : num 0.173

$ mean\_ESoil\_tavg : num 17.3

$ mean\_CanopInt\_inst : num 0.0121

$ mean\_ACond\_tavg : num 0.0159

$ mean\_TWS\_inst : num 1426

$ mean\_Wind\_f\_inst : num 4.99

$ mean\_Rainf\_f\_tavg : num 1.49e-05

$ mean\_Tair\_f\_inst : num 270

$ mean\_Qair\_f\_inst : num 0.00288

$ mean\_Psurf\_f\_inst : num 94485

$ mean\_SWdown\_f\_tavg : num 124

$ mean\_LWdown\_f\_tavg : num 253

> head(as.data.frame(nc\_data\_combined\_preseason\_summary))

mean\_Swnet\_tavg mean\_Lwnet\_tavg mean\_Qle\_tavg mean\_Qh\_tavg mean\_Qg\_tavg mean\_Snowf\_tavg mean\_Rainf\_tavg mean\_Evap\_tavg mean\_Qs\_acc

1 95.26535 -43.75901 18.78883 26.79889 0.1355087 7.914578e-06 6.990275e-06 8.648559e-06 0.01205797

mean\_Qsb\_acc mean\_Qsm\_acc mean\_SnowT\_tavg mean\_AvgSurfT\_inst mean\_Albedo\_inst mean\_SWE\_inst mean\_SnowDepth\_inst

1 0 0.08901921 270.7456 270.7597 26.09964 10.25326 0.05090485

mean\_SoilMoist\_S\_inst mean\_SoilMoist\_RZ\_inst mean\_SoilMoist\_P\_inst mean\_SoilTMP0\_10cm\_inst mean\_SoilTMP10\_29cm\_inst

1 4.842806 235.6623 1415.438 271.9759 271.7756

mean\_SoilTMP29\_68cm\_inst mean\_SoilTMP68\_144cm\_inst mean\_SoilTMP144\_295cm\_inst mean\_SoilTMP295\_1295cm\_inst mean\_ECanop\_tavg

1 272.0915 274.1699 277.4245 281.6328 1.312196

mean\_TVeg\_tavg mean\_ESoil\_tavg mean\_CanopInt\_inst mean\_ACond\_tavg mean\_TWS\_inst mean\_Wind\_f\_inst mean\_Rainf\_f\_tavg mean\_Tair\_f\_inst

1 0.1731536 17.30348 0.01210257 0.0159422 1425.703 4.987412 1.490485e-05 270.4835

mean\_Qair\_f\_inst mean\_Psurf\_f\_inst mean\_SWdown\_f\_tavg mean\_LWdown\_f\_tavg

1 0.002884428 94484.51 124.0982 253.294

>

> nc\_data\_combined\_preseason\_summary <- nc\_data\_combined\_preseason %>% group\_by(year) %>% summarize(across(-c(time\_bnds, datetime, date, time, year, month), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

Error in `summarize()`:

ℹ In argument: `across(...)`.

Caused by error in `across()`:

! Can't select columns that don't exist.

✖ Column `year` doesn't exist.

Run `rlang::last\_trace()` to see where the error occurred.

>

> nc\_data\_combined\_preseason\_summary <- nc\_data\_combined\_preseason %>% group\_by(year) %>% summarize(across(-c(time\_bnds, datetime, date, time, month), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

>

> str(as.data.frame(nc\_data\_combined\_preseason\_summary))

'data.frame': 5 obs. of 39 variables:

$ year : chr "2010" "2011" "2012" "2013" ...

$ mean\_Swnet\_tavg : num 268.5 76.5 104.1 100.2 100

$ mean\_Lwnet\_tavg : num -45.5 -35.7 -48.4 -43.1 -47.8

$ mean\_Qle\_tavg : num 119.1 11.7 31.1 13.3 18.8

$ mean\_Qh\_tavg : num 109.5 20.8 20.6 39.1 26.7

$ mean\_Qg\_tavg : num -5.419 0.332 2.088 -0.97 -0.919

$ mean\_Snowf\_tavg : num 0.00 1.05e-05 2.89e-06 8.30e-06 9.98e-06

$ mean\_Rainf\_tavg : num 2.85e-04 7.06e-06 1.07e-05 3.15e-06 6.73e-06

$ mean\_Evap\_tavg : num 4.83e-05 5.99e-06 1.29e-05 6.43e-06 9.16e-06

$ mean\_Qs\_acc : num 0.17746 0.01997 0.0086 0.00536 0.01414

$ mean\_Qsb\_acc : num 0 0 0 0 0

$ mean\_Qsm\_acc : num 0 0.149 0.0272 0.0755 0.105

$ mean\_SnowT\_tavg : num 288 268 276 270 269

$ mean\_AvgSurfT\_inst : num 284 268 276 270 269

$ mean\_Albedo\_inst : num 18.7 34.6 19.8 24.3 25.8

$ mean\_SWE\_inst : num 0 28.18 1.57 4.88 6.44

$ mean\_SnowDepth\_inst : num 0 0.1195 0.0105 0.0326 0.0414

$ mean\_SoilMoist\_S\_inst : num 5.83 5.16 4.79 4.54 4.88

$ mean\_SoilMoist\_RZ\_inst : num 248 251 234 220 237

$ mean\_SoilMoist\_P\_inst : num 1493 1501 1437 1301 1422

$ mean\_SoilTMP0\_10cm\_inst : num 288 272 276 271 269

$ mean\_SoilTMP10\_29cm\_inst : num 284 272 275 271 269

$ mean\_SoilTMP29\_68cm\_inst : num 281 272 275 271 270

$ mean\_SoilTMP68\_144cm\_inst : num 278 274 276 274 273

$ mean\_SoilTMP144\_295cm\_inst : num 277 278 278 277 277

$ mean\_SoilTMP295\_1295cm\_inst: num 281 282 282 282 281

$ mean\_ECanop\_tavg : num 12.021 0.951 1.537 1.315 1.432

$ mean\_TVeg\_tavg : num 1.6147 0.1207 0.3233 0.0799 0.1659

$ mean\_ESoil\_tavg : num 105.5 10.7 29.2 11.9 17.2

$ mean\_CanopInt\_inst : num 0.01302 0.01849 0.00891 0.01043 0.0106

$ mean\_ACond\_tavg : num 0.0328 0.0138 0.0162 0.0166 0.0172

$ mean\_TWS\_inst : num 1493 1529 1439 1306 1429

$ mean\_Wind\_f\_inst : num 8.83 4.47 5.22 4.9 5.36

$ mean\_Rainf\_f\_tavg : num 2.85e-04 1.76e-05 1.36e-05 1.15e-05 1.67e-05

$ mean\_Tair\_f\_inst : num 283 268 276 269 268

$ mean\_Qair\_f\_inst : num 0.00543 0.00293 0.00342 0.00268 0.00249

$ mean\_Psurf\_f\_inst : num 92119 94491 94358 94609 94483

$ mean\_SWdown\_f\_tavg : num 324 109 127 129 131

$ mean\_LWdown\_f\_tavg : num 335 254 270 249 240

>

> head(as.data.frame(nc\_data\_combined\_preseason\_summary))

year mean\_Swnet\_tavg mean\_Lwnet\_tavg mean\_Qle\_tavg mean\_Qh\_tavg mean\_Qg\_tavg mean\_Snowf\_tavg mean\_Rainf\_tavg mean\_Evap\_tavg

1 2010 268.47168 -45.48096 119.08752 109.50448 -5.4194684 0.000000e+00 2.848888e-04 4.828199e-05

2 2011 76.53728 -35.70252 11.72403 20.80717 0.3320395 1.052613e-05 7.063067e-06 5.992670e-06

3 2012 104.13256 -48.44713 31.07249 20.61171 2.0882425 2.892912e-06 1.069599e-05 1.293482e-05

4 2013 100.20445 -43.06907 13.30603 39.08968 -0.9695955 8.300918e-06 3.149448e-06 6.430149e-06

5 2014 99.95209 -47.77988 18.84711 26.67156 -0.9194173 9.984067e-06 6.727758e-06 9.159358e-06

mean\_Qs\_acc mean\_Qsb\_acc mean\_Qsm\_acc mean\_SnowT\_tavg mean\_AvgSurfT\_inst mean\_Albedo\_inst mean\_SWE\_inst mean\_SnowDepth\_inst

1 0.177464172 0 0.00000000 288.4740 284.3871 18.74188 0.000000 0.00000000

2 0.019970147 0 0.14899574 268.1054 268.0969 34.63409 28.180701 0.11952568

3 0.008597846 0 0.02718538 276.1675 276.1891 19.79502 1.568372 0.01045572

4 0.005363456 0 0.07545814 269.9964 270.0268 24.25372 4.884551 0.03256358

5 0.014139229 0 0.10495346 268.6534 268.6706 25.78717 6.442321 0.04138449

mean\_SoilMoist\_S\_inst mean\_SoilMoist\_RZ\_inst mean\_SoilMoist\_P\_inst mean\_SoilTMP0\_10cm\_inst mean\_SoilTMP10\_29cm\_inst

1 5.826471 248.0074 1493.303 287.7304 283.9041

2 5.158901 250.7615 1500.641 271.9709 271.7479

3 4.789698 234.2785 1437.332 276.0119 275.4881

4 4.542400 220.4688 1301.110 270.5313 270.5713

5 4.878960 237.1058 1422.189 269.3405 269.2528

mean\_SoilTMP29\_68cm\_inst mean\_SoilTMP68\_144cm\_inst mean\_SoilTMP144\_295cm\_inst mean\_SoilTMP295\_1295cm\_inst mean\_ECanop\_tavg

1 281.4017 278.4897 276.7027 281.4973 12.0207548

2 271.9829 274.0388 277.6183 281.7159 0.9510338

3 275.2858 275.8901 278.1802 281.5713 1.5374019

4 271.3046 273.5723 277.3810 281.7467 1.3151716

5 269.7581 273.1602 276.5138 281.4981 1.4323736

mean\_TVeg\_tavg mean\_ESoil\_tavg mean\_CanopInt\_inst mean\_ACond\_tavg mean\_TWS\_inst mean\_Wind\_f\_inst mean\_Rainf\_f\_tavg mean\_Tair\_f\_inst

1 1.61467183 105.45210 0.013019353 0.03281535 1493.316 8.830433 2.848888e-04 283.0290

2 0.12070361 10.65229 0.018494996 0.01380277 1528.840 4.469968 1.758920e-05 268.2495

3 0.32334709 29.21174 0.008905096 0.01618350 1438.909 5.219427 1.358890e-05 276.1845

4 0.07986623 11.91099 0.010426595 0.01656039 1306.005 4.895507 1.145037e-05 269.0428

5 0.16590365 17.24883 0.010602477 0.01720406 1428.642 5.358853 1.671183e-05 268.3996

mean\_Qair\_f\_inst mean\_Psurf\_f\_inst mean\_SWdown\_f\_tavg mean\_LWdown\_f\_tavg

1 0.005429121 92118.52 324.4330 334.5812

2 0.002933002 94491.21 108.9232 254.2235

3 0.003424976 94358.46 126.7923 269.8620

4 0.002683681 94608.72 128.9896 248.7768

5 0.002489036 94483.29 131.4693 240.0988

>

>

> wheat\_data\_summary <- wheat\_data %>% group\_by(year, perennial\_trt) %>% summarize(across(-c(rep, strip, field\_stag\_start, yr\_in\_perennial), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

`summarise()` has grouped output by 'year'. You can override using the `.groups` argument.

>

> str(as.data.frame(wheat\_data\_summary))

'data.frame': 16 obs. of 13 variables:

$ year : int 2011 2011 2011 2011 2012 2012 2012 2012 2013 2013 ...

$ perennial\_trt: chr "AFW" "Alfalfa" "IWG" "MIX" ...

$ mean\_ca : num 0.345 0.356 0.349 0.354 0.367 ...

$ mean\_fe : num 35.5 34.7 34.6 33.5 41.7 ...

$ mean\_k : num 4.6 4.45 4.48 4.48 4.13 ...

$ mean\_mg : num 2.17 2.28 2.29 2.27 2.16 ...

$ mean\_mn : num 39.9 39.9 42.1 36.8 46.4 ...

$ mean\_ni : num 0.425 0.403 0.626 0.46 0.518 ...

$ mean\_p : num 5.35 5.3 5.29 5.26 4.22 ...

$ mean\_s : num 1.64 1.59 1.7 1.57 1.42 ...

$ mean\_zn : num 38.2 38.9 45.3 42 25.8 ...

$ mean\_protein : num 156 169 155 162 126 ...

$ mean\_tkw : num 20.9 22.3 21.4 21.7 24.9 ...

> head(as.data.frame(wheat\_data\_summary))

year perennial\_trt mean\_ca mean\_fe mean\_k mean\_mg mean\_mn mean\_ni mean\_p mean\_s mean\_zn mean\_protein mean\_tkw

1 2011 AFW 0.3452500 35.54725 4.601250 2.169750 39.86375 0.4252500 5.348000 1.640000 38.24250 156.1875 20.86475

2 2011 Alfalfa 0.3562500 34.69083 4.449917 2.281167 39.90308 0.4025000 5.304083 1.594083 38.90183 168.5250 22.29167

3 2011 IWG 0.3485625 34.56144 4.476438 2.294000 42.07756 0.6263125 5.292125 1.702063 45.32462 154.8688 21.42600

4 2011 MIX 0.3540000 33.48438 4.481875 2.269813 36.77213 0.4595625 5.263625 1.566688 41.99788 162.0188 21.70012

5 2012 AFW 0.3672500 41.70975 4.131750 2.161750 46.39050 0.5180000 4.223750 1.424750 25.83975 126.3750 24.88450

6 2012 Alfalfa 0.3828333 40.15692 4.216083 2.309500 41.81517 0.4581667 4.388250 1.482250 28.10492 135.2208 24.44133

>

> wheat\_data\_summary <- wheat\_data %>% group\_by(perennial\_trt, year) %>% summarize(across(-c(rep, strip, field\_stag\_start, yr\_in\_perennial), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

>

> head(as.data.frame(wheat\_data\_summary))

perennial\_trt year mean\_ca mean\_fe mean\_k mean\_mg mean\_mn mean\_ni mean\_p mean\_s mean\_zn mean\_protein mean\_tkw

1 AFW 2011 0.3452500 35.54725 4.601250 2.169750 39.86375 0.4252500 5.348000 1.640000 38.24250 156.1875 20.86475

2 AFW 2012 0.3672500 41.70975 4.131750 2.161750 46.39050 0.5180000 4.223750 1.424750 25.83975 126.3750 24.88450

3 AFW 2013 0.3827500 37.68400 4.558250 2.315500 40.51450 0.6802500 4.898500 1.676500 38.88925 154.9000 24.39450

4 AFW 2014 0.3782500 33.25900 4.250500 2.062500 41.98075 0.4942500 4.397250 1.344500 28.65325 117.6875 27.59225

5 Alfalfa 2011 0.3562500 34.69083 4.449917 2.281167 39.90308 0.4025000 5.304083 1.594083 38.90183 168.5250 22.29167

6 Alfalfa 2012 0.3828333 40.15692 4.216083 2.309500 41.81517 0.4581667 4.388250 1.482250 28.10492 135.2208 24.44133

>

>

> combined\_nasa\_wheat\_data\_preseason <- inner\_join(nc\_data\_combined\_preseason\_summary, wheat\_data\_summary, by = year)

Error: object 'year' not found

>

> combined\_nasa\_wheat\_data\_preseason <- inner\_join(nc\_data\_combined\_preseason\_summary, wheat\_data\_summary, by = "year")

Error in `inner\_join()`:

! Can't join `x$year` with `y$year` due to incompatible types.

ℹ `x$year` is a <character>.

ℹ `y$year` is a <integer>.

Run `rlang::last\_trace()` to see where the error occurred.

>

> wheat\_data\_summary$year <- as.character(wheat\_data\_summary$year)

>

> combined\_nasa\_wheat\_data\_preseason <- inner\_join(nc\_data\_combined\_preseason\_summary, wheat\_data\_summary, by = "year")

> str(as.data.frame(combined\_nasa\_wheat\_data\_preseason))

'data.frame': 16 obs. of 51 variables:

$ year : chr "2011" "2011" "2011" "2011" ...

$ mean\_Swnet\_tavg : num 76.5 76.5 76.5 76.5 104.1 ...

$ mean\_Lwnet\_tavg : num -35.7 -35.7 -35.7 -35.7 -48.4 ...

$ mean\_Qle\_tavg : num 11.7 11.7 11.7 11.7 31.1 ...

$ mean\_Qh\_tavg : num 20.8 20.8 20.8 20.8 20.6 ...

$ mean\_Qg\_tavg : num 0.332 0.332 0.332 0.332 2.088 ...

$ mean\_Snowf\_tavg : num 1.05e-05 1.05e-05 1.05e-05 1.05e-05 2.89e-06 ...

$ mean\_Rainf\_tavg : num 7.06e-06 7.06e-06 7.06e-06 7.06e-06 1.07e-05 ...

$ mean\_Evap\_tavg : num 5.99e-06 5.99e-06 5.99e-06 5.99e-06 1.29e-05 ...

$ mean\_Qs\_acc : num 0.02 0.02 0.02 0.02 0.0086 ...

$ mean\_Qsb\_acc : num 0 0 0 0 0 0 0 0 0 0 ...

$ mean\_Qsm\_acc : num 0.149 0.149 0.149 0.149 0.0272 ...

$ mean\_SnowT\_tavg : num 268 268 268 268 276 ...

$ mean\_AvgSurfT\_inst : num 268 268 268 268 276 ...

$ mean\_Albedo\_inst : num 34.6 34.6 34.6 34.6 19.8 ...

$ mean\_SWE\_inst : num 28.18 28.18 28.18 28.18 1.57 ...

$ mean\_SnowDepth\_inst : num 0.1195 0.1195 0.1195 0.1195 0.0105 ...

$ mean\_SoilMoist\_S\_inst : num 5.16 5.16 5.16 5.16 4.79 ...

$ mean\_SoilMoist\_RZ\_inst : num 251 251 251 251 234 ...

$ mean\_SoilMoist\_P\_inst : num 1501 1501 1501 1501 1437 ...

$ mean\_SoilTMP0\_10cm\_inst : num 272 272 272 272 276 ...

$ mean\_SoilTMP10\_29cm\_inst : num 272 272 272 272 275 ...

$ mean\_SoilTMP29\_68cm\_inst : num 272 272 272 272 275 ...

$ mean\_SoilTMP68\_144cm\_inst : num 274 274 274 274 276 ...

$ mean\_SoilTMP144\_295cm\_inst : num 278 278 278 278 278 ...

$ mean\_SoilTMP295\_1295cm\_inst: num 282 282 282 282 282 ...

$ mean\_ECanop\_tavg : num 0.951 0.951 0.951 0.951 1.537 ...

$ mean\_TVeg\_tavg : num 0.121 0.121 0.121 0.121 0.323 ...

$ mean\_ESoil\_tavg : num 10.7 10.7 10.7 10.7 29.2 ...

$ mean\_CanopInt\_inst : num 0.01849 0.01849 0.01849 0.01849 0.00891 ...

$ mean\_ACond\_tavg : num 0.0138 0.0138 0.0138 0.0138 0.0162 ...

$ mean\_TWS\_inst : num 1529 1529 1529 1529 1439 ...

$ mean\_Wind\_f\_inst : num 4.47 4.47 4.47 4.47 5.22 ...

$ mean\_Rainf\_f\_tavg : num 1.76e-05 1.76e-05 1.76e-05 1.76e-05 1.36e-05 ...

$ mean\_Tair\_f\_inst : num 268 268 268 268 276 ...

$ mean\_Qair\_f\_inst : num 0.00293 0.00293 0.00293 0.00293 0.00342 ...

$ mean\_Psurf\_f\_inst : num 94491 94491 94491 94491 94358 ...

$ mean\_SWdown\_f\_tavg : num 109 109 109 109 127 ...

$ mean\_LWdown\_f\_tavg : num 254 254 254 254 270 ...

$ perennial\_trt : chr "AFW" "Alfalfa" "IWG" "MIX" ...

$ mean\_ca : num 0.345 0.356 0.349 0.354 0.367 ...

$ mean\_fe : num 35.5 34.7 34.6 33.5 41.7 ...

$ mean\_k : num 4.6 4.45 4.48 4.48 4.13 ...

$ mean\_mg : num 2.17 2.28 2.29 2.27 2.16 ...

$ mean\_mn : num 39.9 39.9 42.1 36.8 46.4 ...

$ mean\_ni : num 0.425 0.403 0.626 0.46 0.518 ...

$ mean\_p : num 5.35 5.3 5.29 5.26 4.22 ...

$ mean\_s : num 1.64 1.59 1.7 1.57 1.42 ...

$ mean\_zn : num 38.2 38.9 45.3 42 25.8 ...

$ mean\_protein : num 156 169 155 162 126 ...

$ mean\_tkw : num 20.9 22.3 21.4 21.7 24.9 ...

>

> combined\_nasa\_wheat\_data\_preseason <- inner\_join(nc\_data\_combined\_preseason\_summary, wheat\_data\_summary, by = "year")

> combined\_nasa\_wheat\_data\_season <- inner\_join(nc\_data\_combined\_season\_summary, wheat\_data\_summary, by = "year")

Error: object 'nc\_data\_combined\_season\_summary' not found

>

>

> nc\_data\_combined\_preseason\_summary <- nc\_data\_combined\_preseason %>% group\_by(year) %>% summarize(across(-c(time\_bnds, datetime, date, time, month), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

> nc\_data\_combined\_season\_summary <- nc\_data\_combined\_season %>% group\_by(year) %>% summarize(across(-c(time\_bnds, datetime, date, time, month), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

> nc\_data\_combined\_postseason\_summary <- nc\_data\_combined\_postseason %>% group\_by(year) %>% summarize(across(-c(time\_bnds, datetime, date, time, month), ~ mean(.x, na.rm = TRUE), .names = "mean\_{.col}"))

>

> combined\_nasa\_wheat\_data\_preseason <- inner\_join(nc\_data\_combined\_preseason\_summary, wheat\_data\_summary, by = "year")

> combined\_nasa\_wheat\_data\_season <- inner\_join(nc\_data\_combined\_season\_summary, wheat\_data\_summary, by = "year")

> combined\_nasa\_wheat\_data\_postseason <- inner\_join(nc\_data\_combined\_postseason\_summary, wheat\_data\_summary, by = "year")

>

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

Error in source(file = "/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R") :

/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:81:0: unexpected end of input

79:

80:

^

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `map()`:

ℹ In index: 1.

Caused by error:

! object 'combined' not found

Run `rlang::last\_trace()` to see where the error occurred.

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `map()`:

ℹ In index: 1.

Caused by error:

! object 'Swnet\_tavg' not found

Run `rlang::last\_trace()` to see where the error occurred.

>

>

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `map()`:

ℹ In index: 1.

Caused by error in `lm.fit()`:

! NA/NaN/Inf in 'y'

Run `rlang::last\_trace()` to see where the error occurred.

Warning message:

In storage.mode(v) <- "double" : NAs introduced by coercion

> rlang::last\_trace()

<error/purrr\_error\_indexed>

Error in `map()`:

ℹ In index: 1.

Caused by error in `lm.fit()`:

! NA/NaN/Inf in 'y'

---

Backtrace:

▆

1. ├─base::source(file = "/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

2. │ ├─base::withVisible(eval(ei, envir))

3. │ └─base::eval(ei, envir)

4. │ └─base::eval(ei, envir)

5. └─purrr::map\_df(...) at nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:39:9

6. └─purrr::map(.x, .f, ...)

7. └─purrr:::map\_("list", .x, .f, ..., .progress = .progress)

8. ├─purrr:::with\_indexed\_errors(...)

9. │ └─base::withCallingHandlers(...)

10. ├─purrr:::call\_with\_cleanup(...)

11. └─global .f(.x[[i]], ...)

12. └─stats::lm(f, data = combined\_nasa\_wheat\_data\_preseason) at nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:41:17

13. └─stats::lm.fit(...)

Run rlang::last\_trace(drop = FALSE) to see 4 hidden frames.

>

> rlang::last\_trace()

<error/purrr\_error\_indexed>

Error in `map()`:

ℹ In index: 1.

Caused by error in `lm.fit()`:

! NA/NaN/Inf in 'y'

---

Backtrace:

▆

1. ├─base::source(file = "/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

2. │ ├─base::withVisible(eval(ei, envir))

3. │ └─base::eval(ei, envir)

4. │ └─base::eval(ei, envir)

5. └─purrr::map\_df(...) at nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:39:9

6. └─purrr::map(.x, .f, ...)

7. └─purrr:::map\_("list", .x, .f, ..., .progress = .progress)

8. ├─purrr:::with\_indexed\_errors(...)

9. │ └─base::withCallingHandlers(...)

10. ├─purrr:::call\_with\_cleanup(...)

11. └─global .f(.x[[i]], ...)

12. └─stats::lm(f, data = combined\_nasa\_wheat\_data\_preseason) at nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:41:17

13. └─stats::lm.fit(...)

Run rlang::last\_trace(drop = FALSE) to see 4 hidden frames.

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `inner\_join()` at nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:26:1:

! Can't join `x$year` with `y$year` due to incompatible types.

ℹ `x$year` is a <character>.

ℹ `y$year` is a <integer>.

Run `rlang::last\_trace()` to see where the error occurred.

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `inner\_join()` at nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:26:1:

! Can't join `x$year` with `y$year` due to incompatible types.

ℹ `x$year` is a <character>.

ℹ `y$year` is a <integer>.

Run `rlang::last\_trace()` to see where the error occurred.

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `map()`:

ℹ In index: 1.

Caused by error in `contrasts<-`:

! contrasts can be applied only to factors with 2 or more levels

Run `rlang::last\_trace()` to see where the error occurred.

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `map()`:

ℹ In index: 1.

Caused by error in `contrasts<-`:

! contrasts can be applied only to factors with 2 or more levels

Run `rlang::last\_trace()` to see where the error occurred.

>

>

> sapply(lapply(gldas\_vars\_preseason, unique), length)

[1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

> str(as.data.frame(gldas\_vars\_preseason))

'data.frame': 39 obs. of 1 variable:

$ gldas\_vars\_preseason: chr "year" "mean\_Swnet\_tavg" "mean\_Lwnet\_tavg" "mean\_Qle\_tavg" ...

>

> str(as.data.frame(combined\_nasa\_wheat\_data\_preseason))

'data.frame': 0 obs. of 51 variables:

$ year : chr

$ mean\_Swnet\_tavg : num

$ mean\_Lwnet\_tavg : num

$ mean\_Qle\_tavg : num

$ mean\_Qh\_tavg : num

$ mean\_Qg\_tavg : num

$ mean\_Snowf\_tavg : num

$ mean\_Rainf\_tavg : num

$ mean\_Evap\_tavg : num

$ mean\_Qs\_acc : num

$ mean\_Qsb\_acc : num

$ mean\_Qsm\_acc : num

$ mean\_SnowT\_tavg : num

$ mean\_AvgSurfT\_inst : num

$ mean\_Albedo\_inst : num

$ mean\_SWE\_inst : num

$ mean\_SnowDepth\_inst : num

$ mean\_SoilMoist\_S\_inst : num

$ mean\_SoilMoist\_RZ\_inst : num

$ mean\_SoilMoist\_P\_inst : num

$ mean\_SoilTMP0\_10cm\_inst : num

$ mean\_SoilTMP10\_29cm\_inst : num

$ mean\_SoilTMP29\_68cm\_inst : num

$ mean\_SoilTMP68\_144cm\_inst : num

$ mean\_SoilTMP144\_295cm\_inst : num

$ mean\_SoilTMP295\_1295cm\_inst: num

$ mean\_ECanop\_tavg : num

$ mean\_TVeg\_tavg : num

$ mean\_ESoil\_tavg : num

$ mean\_CanopInt\_inst : num

$ mean\_ACond\_tavg : num

$ mean\_TWS\_inst : num

$ mean\_Wind\_f\_inst : num

$ mean\_Rainf\_f\_tavg : num

$ mean\_Tair\_f\_inst : num

$ mean\_Qair\_f\_inst : num

$ mean\_Psurf\_f\_inst : num

$ mean\_SWdown\_f\_tavg : num

$ mean\_LWdown\_f\_tavg : num

$ perennial\_trt : chr

$ mean\_ca : num

$ mean\_fe : num

$ mean\_k : num

$ mean\_mg : num

$ mean\_mn : num

$ mean\_ni : num

$ mean\_p : num

$ mean\_s : num

$ mean\_zn : num

$ mean\_protein : num

$ mean\_tkw : num

>

> gldas\_vars\_preseason <- setdiff(names(nc\_data\_combined\_preseason\_summary), c("time\_bnds", "datetime", "date", "time", "month"))

> str(as.data.frame(gldas\_vars\_preseason))

'data.frame': 39 obs. of 1 variable:

$ gldas\_vars\_preseason: chr "year" "mean\_Swnet\_tavg" "mean\_Lwnet\_tavg" "mean\_Qle\_tavg" ...

>

> str(as.data.frame(combined\_nasa\_wheat\_data\_preseason))

'data.frame': 0 obs. of 51 variables:

$ year : chr

$ mean\_Swnet\_tavg : num

$ mean\_Lwnet\_tavg : num

$ mean\_Qle\_tavg : num

$ mean\_Qh\_tavg : num

$ mean\_Qg\_tavg : num

$ mean\_Snowf\_tavg : num

$ mean\_Rainf\_tavg : num

$ mean\_Evap\_tavg : num

$ mean\_Qs\_acc : num

$ mean\_Qsb\_acc : num

$ mean\_Qsm\_acc : num

$ mean\_SnowT\_tavg : num

$ mean\_AvgSurfT\_inst : num

$ mean\_Albedo\_inst : num

$ mean\_SWE\_inst : num

$ mean\_SnowDepth\_inst : num

$ mean\_SoilMoist\_S\_inst : num

$ mean\_SoilMoist\_RZ\_inst : num

$ mean\_SoilMoist\_P\_inst : num

$ mean\_SoilTMP0\_10cm\_inst : num

$ mean\_SoilTMP10\_29cm\_inst : num

$ mean\_SoilTMP29\_68cm\_inst : num

$ mean\_SoilTMP68\_144cm\_inst : num

$ mean\_SoilTMP144\_295cm\_inst : num

$ mean\_SoilTMP295\_1295cm\_inst: num

$ mean\_ECanop\_tavg : num

$ mean\_TVeg\_tavg : num

$ mean\_ESoil\_tavg : num

$ mean\_CanopInt\_inst : num

$ mean\_ACond\_tavg : num

$ mean\_TWS\_inst : num

$ mean\_Wind\_f\_inst : num

$ mean\_Rainf\_f\_tavg : num

$ mean\_Tair\_f\_inst : num

$ mean\_Qair\_f\_inst : num

$ mean\_Psurf\_f\_inst : num

$ mean\_SWdown\_f\_tavg : num

$ mean\_LWdown\_f\_tavg : num

$ perennial\_trt : chr

$ mean\_ca : num

$ mean\_fe : num

$ mean\_k : num

$ mean\_mg : num

$ mean\_mn : num

$ mean\_ni : num

$ mean\_p : num

$ mean\_s : num

$ mean\_zn : num

$ mean\_protein : num

$ mean\_tkw : num

>

>

>

>

> wheat\_data %>% ggplot(aes(x = year, y = ca)) + geom\_boxplot() + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 5) + labs(x = "", y = "Wheat Calcium Content") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

Warning message:

Continuous x aesthetic

ℹ did you forget `aes(group = ...)`?

>

> wheat\_data %>% ggplot(aes(x = factor(year), y = ca)) + geom\_boxplot() + facet\_wrap(~ perennial\_trt, scales = "free\_x", ncol = 5) + labs(x = "", y = "Wheat Calcium Content") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> wheat\_data %>% ggplot(aes(x = perennial\_trt, y = ca)) + geom\_boxplot() + facet\_wrap(~ factor(year), scales = "free\_x", ncol = 5) + labs(x = "", y = "Wheat Calcium Content") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

2025-09-30 17:07:16.120 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 17:07:16.239 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 17:07:35.720 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 17:07:36.536 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

>

>

> wheat\_data %>% ggplot(aes(x = perennial\_trt, y = protein)) + geom\_boxplot() + facet\_wrap(~ factor(year), scales = "free\_x", ncol = 5) + labs(x = "", y = "Wheat Protein Content") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

2025-09-30 17:08:32.144 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 17:08:32.250 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 17:08:35.215 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 17:08:36.058 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

> names(wheat\_data)

[1] "year" "rep" "strip" "field\_stag\_start" "perennial\_trt" "yr\_in\_perennial"

[7] "ca" "fe" "k" "mg" "mn" "ni"

[13] "p" "s" "zn" "protein" "tkw"

>

> wheat\_data %>% ggplot(aes(x = perennial\_trt, y = ni)) + geom\_boxplot() + facet\_wrap(~ factor(year), scales = "free\_x", ncol = 5) + labs(x = "", y = "Wheat Nickel Content") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

> wheat\_data %>% ggplot(aes(x = perennial\_trt, y = mg)) + geom\_boxplot() + facet\_wrap(~ factor(year), scales = "free\_x", ncol = 5) + labs(x = "", y = "Wheat Magnesium Content") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

>

> wheat\_data %>% ggplot(aes(x = perennial\_trt, y = fe)) + geom\_boxplot() + facet\_wrap(~ factor(year), scales = "free\_x", ncol = 5) + labs(x = "", y = "Wheat Iron Content") + theme\_classic() + theme(plot.title = element\_text(size = 14), legend.key.size = unit(1,"line"), axis.text.y = element\_text(size = 14), axis.text.x = element\_text(size = 11, angle = 90, vjust = .5), axis.title.y = element\_text(size = 15), axis.title.x = element\_text(size = 16), legend.title = element\_text(size = 16), legend.text = element\_text(size = 14), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), strip.text.x = element\_text(size = 14), strip.background = element\_rect(color = "black", fill = "white", size = 1, linetype = "solid"), panel.border = element\_rect(color = "black", fill = NA, linewidth = 1))

2025-09-30 17:10:34.722 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-09-30 17:10:34.811 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `map()`:

ℹ In index: 1.

Caused by error in `contrasts<-`:

! contrasts can be applied only to factors with 2 or more levels

Run `rlang::last\_trace()` to see where the error occurred.

2025-10-01 00:24:37.903 R[28951:2398487] NSSpellServer dataFromGeneratingCandidatesForSelectedRange timed out, index is 0

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

[1] "year" "mean\_Swnet\_tavg" "mean\_Lwnet\_tavg" "mean\_Qle\_tavg"

[5] "mean\_Qh\_tavg" "mean\_Qg\_tavg" "mean\_Snowf\_tavg" "mean\_Rainf\_tavg"

[9] "mean\_Evap\_tavg" "mean\_Qs\_acc" "mean\_Qsb\_acc" "mean\_Qsm\_acc"

[13] "mean\_SnowT\_tavg" "mean\_AvgSurfT\_inst" "mean\_Albedo\_inst" "mean\_SWE\_inst"

[17] "mean\_SnowDepth\_inst" "mean\_SoilMoist\_S\_inst" "mean\_SoilMoist\_RZ\_inst" "mean\_SoilMoist\_P\_inst"

[21] "mean\_SoilTMP0\_10cm\_inst" "mean\_SoilTMP10\_29cm\_inst" "mean\_SoilTMP29\_68cm\_inst" "mean\_SoilTMP68\_144cm\_inst"

[25] "mean\_SoilTMP144\_295cm\_inst" "mean\_SoilTMP295\_1295cm\_inst" "mean\_ECanop\_tavg" "mean\_TVeg\_tavg"

[29] "mean\_ESoil\_tavg" "mean\_CanopInt\_inst" "mean\_ACond\_tavg" "mean\_TWS\_inst"

[33] "mean\_Wind\_f\_inst" "mean\_Rainf\_f\_tavg" "mean\_Tair\_f\_inst" "mean\_Qair\_f\_inst"

[37] "mean\_Psurf\_f\_inst" "mean\_SWdown\_f\_tavg" "mean\_LWdown\_f\_tavg"

[1] "perennial\_trt" "year" "mean\_ca" "mean\_fe" "mean\_k" "mean\_mg" "mean\_mn" "mean\_ni"

[9] "mean\_p" "mean\_s" "mean\_zn" "mean\_protein" "mean\_tkw"

Error in `map()`:

ℹ In index: 1.

Caused by error in `contrasts<-`:

! contrasts can be applied only to factors with 2 or more levels

Run `rlang::last\_trace()` to see where the error occurred.

> print(sapply(lapply(gldas\_vars\_preseason, unique), length)

+ )

[1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

>

>

> print(sapply(lapply(gldas\_vars\_preseason, unique), length))

[1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

>

> str(as.data.frame(combined\_nasa\_wheat\_data\_preseason))

'data.frame': 0 obs. of 51 variables:

$ year : chr

$ mean\_Swnet\_tavg : num

$ mean\_Lwnet\_tavg : num

$ mean\_Qle\_tavg : num

$ mean\_Qh\_tavg : num

$ mean\_Qg\_tavg : num

$ mean\_Snowf\_tavg : num

$ mean\_Rainf\_tavg : num

$ mean\_Evap\_tavg : num

$ mean\_Qs\_acc : num

$ mean\_Qsb\_acc : num

$ mean\_Qsm\_acc : num

$ mean\_SnowT\_tavg : num

$ mean\_AvgSurfT\_inst : num

$ mean\_Albedo\_inst : num

$ mean\_SWE\_inst : num

$ mean\_SnowDepth\_inst : num

$ mean\_SoilMoist\_S\_inst : num

$ mean\_SoilMoist\_RZ\_inst : num

$ mean\_SoilMoist\_P\_inst : num

$ mean\_SoilTMP0\_10cm\_inst : num

$ mean\_SoilTMP10\_29cm\_inst : num

$ mean\_SoilTMP29\_68cm\_inst : num

$ mean\_SoilTMP68\_144cm\_inst : num

$ mean\_SoilTMP144\_295cm\_inst : num

$ mean\_SoilTMP295\_1295cm\_inst: num

$ mean\_ECanop\_tavg : num

$ mean\_TVeg\_tavg : num

$ mean\_ESoil\_tavg : num

$ mean\_CanopInt\_inst : num

$ mean\_ACond\_tavg : num

$ mean\_TWS\_inst : num

$ mean\_Wind\_f\_inst : num

$ mean\_Rainf\_f\_tavg : num

$ mean\_Tair\_f\_inst : num

$ mean\_Qair\_f\_inst : num

$ mean\_Psurf\_f\_inst : num

$ mean\_SWdown\_f\_tavg : num

$ mean\_LWdown\_f\_tavg : num

$ perennial\_trt : chr

$ mean\_ca : num

$ mean\_fe : num

$ mean\_k : num

$ mean\_mg : num

$ mean\_mn : num

$ mean\_ni : num

$ mean\_p : num

$ mean\_s : num

$ mean\_zn : num

$ mean\_protein : num

$ mean\_tkw : num

2025-10-01 00:38:39.991 R[28951:2491140] NSSpellServer dataFromGeneratingCandidatesForSelectedRange timed out, index is 0

>

> str(as.data.frame(combined\_nasa\_wheat\_data\_preseason))

'data.frame': 0 obs. of 51 variables:

$ year : chr

$ mean\_Swnet\_tavg : num

$ mean\_Lwnet\_tavg : num

$ mean\_Qle\_tavg : num

$ mean\_Qh\_tavg : num

$ mean\_Qg\_tavg : num

$ mean\_Snowf\_tavg : num

$ mean\_Rainf\_tavg : num

$ mean\_Evap\_tavg : num

$ mean\_Qs\_acc : num

$ mean\_Qsb\_acc : num

$ mean\_Qsm\_acc : num

$ mean\_SnowT\_tavg : num

$ mean\_AvgSurfT\_inst : num

$ mean\_Albedo\_inst : num

$ mean\_SWE\_inst : num

$ mean\_SnowDepth\_inst : num

$ mean\_SoilMoist\_S\_inst : num

$ mean\_SoilMoist\_RZ\_inst : num

$ mean\_SoilMoist\_P\_inst : num

$ mean\_SoilTMP0\_10cm\_inst : num

$ mean\_SoilTMP10\_29cm\_inst : num

$ mean\_SoilTMP29\_68cm\_inst : num

$ mean\_SoilTMP68\_144cm\_inst : num

$ mean\_SoilTMP144\_295cm\_inst : num

$ mean\_SoilTMP295\_1295cm\_inst: num

$ mean\_ECanop\_tavg : num

$ mean\_TVeg\_tavg : num

$ mean\_ESoil\_tavg : num

$ mean\_CanopInt\_inst : num

$ mean\_ACond\_tavg : num

$ mean\_TWS\_inst : num

$ mean\_Wind\_f\_inst : num

$ mean\_Rainf\_f\_tavg : num

$ mean\_Tair\_f\_inst : num

$ mean\_Qair\_f\_inst : num

$ mean\_Psurf\_f\_inst : num

$ mean\_SWdown\_f\_tavg : num

$ mean\_LWdown\_f\_tavg : num

$ perennial\_trt : chr

$ mean\_ca : num

$ mean\_fe : num

$ mean\_k : num

$ mean\_mg : num

$ mean\_mn : num

$ mean\_ni : num

$ mean\_p : num

$ mean\_s : num

$ mean\_zn : num

$ mean\_protein : num

$ mean\_tkw : num

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

Error in source(file = "/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R") :

/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R:42:1: unexpected 'for'

41:

42: for

^

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

[1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Error in `map()`:

ℹ In index: 1.

Caused by error in `contrasts<-`:

! contrasts can be applied only to factors with 2 or more levels

Run `rlang::last\_trace()` to see where the error occurred.

2025-10-01 00:43:46.158 R[28951:2084211] +[CATransaction synchronize] called within transaction

2025-10-01 00:43:46.530 R[28951:2084211] +[CATransaction synchronize] called within transaction

>

> str(as.data.frame(nc\_data\_combined\_preseason\_summary))

'data.frame': 5 obs. of 39 variables:

$ year : chr "2010" "2011" "2012" "2013" ...

$ mean\_Swnet\_tavg : num 268.5 76.5 104.1 100.2 100

$ mean\_Lwnet\_tavg : num -45.5 -35.7 -48.4 -43.1 -47.8

$ mean\_Qle\_tavg : num 119.1 11.7 31.1 13.3 18.8

$ mean\_Qh\_tavg : num 109.5 20.8 20.6 39.1 26.7

$ mean\_Qg\_tavg : num -5.419 0.332 2.088 -0.97 -0.919

$ mean\_Snowf\_tavg : num 0.00 1.05e-05 2.89e-06 8.30e-06 9.98e-06

$ mean\_Rainf\_tavg : num 2.85e-04 7.06e-06 1.07e-05 3.15e-06 6.73e-06

$ mean\_Evap\_tavg : num 4.83e-05 5.99e-06 1.29e-05 6.43e-06 9.16e-06

$ mean\_Qs\_acc : num 0.17746 0.01997 0.0086 0.00536 0.01414

$ mean\_Qsb\_acc : num 0 0 0 0 0

$ mean\_Qsm\_acc : num 0 0.149 0.0272 0.0755 0.105

$ mean\_SnowT\_tavg : num 288 268 276 270 269

$ mean\_AvgSurfT\_inst : num 284 268 276 270 269

$ mean\_Albedo\_inst : num 18.7 34.6 19.8 24.3 25.8

$ mean\_SWE\_inst : num 0 28.18 1.57 4.88 6.44

$ mean\_SnowDepth\_inst : num 0 0.1195 0.0105 0.0326 0.0414

$ mean\_SoilMoist\_S\_inst : num 5.83 5.16 4.79 4.54 4.88

$ mean\_SoilMoist\_RZ\_inst : num 248 251 234 220 237

$ mean\_SoilMoist\_P\_inst : num 1493 1501 1437 1301 1422

$ mean\_SoilTMP0\_10cm\_inst : num 288 272 276 271 269

$ mean\_SoilTMP10\_29cm\_inst : num 284 272 275 271 269

$ mean\_SoilTMP29\_68cm\_inst : num 281 272 275 271 270

$ mean\_SoilTMP68\_144cm\_inst : num 278 274 276 274 273

$ mean\_SoilTMP144\_295cm\_inst : num 277 278 278 277 277

$ mean\_SoilTMP295\_1295cm\_inst: num 281 282 282 282 281

$ mean\_ECanop\_tavg : num 12.021 0.951 1.537 1.315 1.432

$ mean\_TVeg\_tavg : num 1.6147 0.1207 0.3233 0.0799 0.1659

$ mean\_ESoil\_tavg : num 105.5 10.7 29.2 11.9 17.2

$ mean\_CanopInt\_inst : num 0.01302 0.01849 0.00891 0.01043 0.0106

$ mean\_ACond\_tavg : num 0.0328 0.0138 0.0162 0.0166 0.0172

$ mean\_TWS\_inst : num 1493 1529 1439 1306 1429

$ mean\_Wind\_f\_inst : num 8.83 4.47 5.22 4.9 5.36

$ mean\_Rainf\_f\_tavg : num 2.85e-04 1.76e-05 1.36e-05 1.15e-05 1.67e-05

$ mean\_Tair\_f\_inst : num 283 268 276 269 268

$ mean\_Qair\_f\_inst : num 0.00543 0.00293 0.00342 0.00268 0.00249

$ mean\_Psurf\_f\_inst : num 92119 94491 94358 94609 94483

$ mean\_SWdown\_f\_tavg : num 324 109 127 129 131

$ mean\_LWdown\_f\_tavg : num 335 254 270 249 240

>

> str(as.data.frame(wheat\_data\_summary\_trt))

'data.frame': 0 obs. of 13 variables:

$ perennial\_trt: chr

$ year : chr

$ mean\_ca : num

$ mean\_fe : num

$ mean\_k : num

$ mean\_mg : num

$ mean\_mn : num

$ mean\_ni : num

$ mean\_p : num

$ mean\_s : num

$ mean\_zn : num

$ mean\_protein : num

$ mean\_tkw : num

>

> str(as.data.frame(wheat\_data\_summary))

'data.frame': 16 obs. of 13 variables:

$ perennial\_trt: chr "AFW" "AFW" "AFW" "AFW" ...

$ year : chr "2011" "2012" "2013" "2014" ...

$ mean\_ca : num 0.345 0.367 0.383 0.378 0.356 ...

$ mean\_fe : num 35.5 41.7 37.7 33.3 34.7 ...

$ mean\_k : num 4.6 4.13 4.56 4.25 4.45 ...

$ mean\_mg : num 2.17 2.16 2.32 2.06 2.28 ...

$ mean\_mn : num 39.9 46.4 40.5 42 39.9 ...

$ mean\_ni : num 0.425 0.518 0.68 0.494 0.403 ...

$ mean\_p : num 5.35 4.22 4.9 4.4 5.3 ...

$ mean\_s : num 1.64 1.42 1.68 1.34 1.59 ...

$ mean\_zn : num 38.2 25.8 38.9 28.7 38.9 ...

$ mean\_protein : num 156 126 155 118 169 ...

$ mean\_tkw : num 20.9 24.9 24.4 27.6 22.3 ...

>

> unique(wheat\_data\_summary$perennial\_trt)

[1] "AFW" "Alfalfa" "IWG" "MIX"

>

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

[1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Error in `map()`:

ℹ In index: 1.

Caused by error in `lm.fit()`:

! NA/NaN/Inf in 'y'

Run `rlang::last\_trace()` to see where the error occurred.

Warning message:

In storage.mode(v) <- "double" : NAs introduced by coercion

>

>

> dim(combined\_nasa\_wheat\_data\_preseason)

[1] 5 51

> head(combined\_nasa\_wheat\_data\_preseason)

# A tibble: 5 × 51

year mean\_Swnet\_tavg mean\_Lwnet\_tavg mean\_Qle\_tavg mean\_Qh\_tavg mean\_Qg\_tavg mean\_Snowf\_tavg mean\_Rainf\_tavg mean\_Evap\_tavg

<chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>

1 2010 268. -45.5 119. 110. -5.42 0 0.000285 0.0000483

2 2011 76.5 -35.7 11.7 20.8 0.332 0.0000105 0.00000706 0.00000599

3 2012 104. -48.4 31.1 20.6 2.09 0.00000289 0.0000107 0.0000129

4 2013 100. -43.1 13.3 39.1 -0.970 0.00000830 0.00000315 0.00000643

5 2014 100. -47.8 18.8 26.7 -0.919 0.00000998 0.00000673 0.00000916

# ℹ 42 more variables: mean\_Qs\_acc <dbl>, mean\_Qsb\_acc <dbl>, mean\_Qsm\_acc <dbl>, mean\_SnowT\_tavg <dbl>, mean\_AvgSurfT\_inst <dbl>,

# mean\_Albedo\_inst <dbl>, mean\_SWE\_inst <dbl>, mean\_SnowDepth\_inst <dbl>, mean\_SoilMoist\_S\_inst <dbl>, mean\_SoilMoist\_RZ\_inst <dbl>,

# mean\_SoilMoist\_P\_inst <dbl>, mean\_SoilTMP0\_10cm\_inst <dbl>, mean\_SoilTMP10\_29cm\_inst <dbl>, mean\_SoilTMP29\_68cm\_inst <dbl>,

# mean\_SoilTMP68\_144cm\_inst <dbl>, mean\_SoilTMP144\_295cm\_inst <dbl>, mean\_SoilTMP295\_1295cm\_inst <dbl>, mean\_ECanop\_tavg <dbl>,

# mean\_TVeg\_tavg <dbl>, mean\_ESoil\_tavg <dbl>, mean\_CanopInt\_inst <dbl>, mean\_ACond\_tavg <dbl>, mean\_TWS\_inst <dbl>,

# mean\_Wind\_f\_inst <dbl>, mean\_Rainf\_f\_tavg <dbl>, mean\_Tair\_f\_inst <dbl>, mean\_Qair\_f\_inst <dbl>, mean\_Psurf\_f\_inst <dbl>,

# mean\_SWdown\_f\_tavg <dbl>, mean\_LWdown\_f\_tavg <dbl>, perennial\_trt <chr>, mean\_ca <dbl>, mean\_fe <dbl>, mean\_k <dbl>, …

>

> head(combined\_nasa\_wheat\_data\_preseason[,45:51])

# A tibble: 5 × 7

mean\_mn mean\_ni mean\_p mean\_s mean\_zn mean\_protein mean\_tkw

<dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>

1 NA NA NA NA NA NA NA

2 39.9 0.402 5.30 1.59 38.9 169. 22.3

3 41.8 0.458 4.39 1.48 28.1 135. 24.4

4 40.8 0.656 5.23 1.74 47.6 156. 24.4

5 34.7 0.429 4.34 1.34 30.7 121. 28.1

>

>

> source(file="/Users/gaellemuller-greven/Dropbox/data\_science/projects/nasa\_space\_apps\_2025/r\_code/nasa\_crop\_analysis.R")

`summarise()` has grouped output by 'perennial\_trt'. You can override using the `.groups` argument.

Error in `map()`:

ℹ In index: 1.

Caused by error in `lm.fit()`:

! NA/NaN/Inf in 'y'

Run `rlang::last\_trace()` to see where the error occurred.

Warning message:

In storage.mode(v) <- "double" : NAs introduced by coercion

>

> head(combined\_nasa\_wheat\_data\_preseason[,45:51])

# A tibble: 4 × 7

mean\_mn mean\_ni mean\_p mean\_s mean\_zn mean\_protein mean\_tkw

<dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>

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