NEI\_2011\_radm 1.0

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# **Chapter 1**

# **Modules Index**

# 1.1 Modules List

	Here is a list	of all modules	with brief	descriptions:
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var_nei		
	Emissions Inventorie Variables	Į.

2 Modules Index

# Chapter 2

# File Index

# 2.1 File List

Here is a list of all files with brief descriptions:

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File Index

# **Chapter 3**

# **Module Documentation**

# 3.1 var\_nei Module Reference

Emissions Inventorie Variables.

# **Functions/Subroutines**

• subroutine check (status)

Verifies no error in netcdf function call.

subroutine lee\_nml (IX, JX, KX)

Reads dimensions from namelist file.

#### **Variables**

• integer zlev

Emission Layer.

integer hh

Start hour in binary emissions file.

• integer nradm

Number of chemical species in netcdf emissions file.

• integer, parameter nh =24

Number of hours in a day.

• integer, parameter radm =32

Number of chemical species in RADM mechanism.

• integer, parameter ndims =6

Number dimensions to be stored in netcdf output file.

• real, dimension(:,:,:,:), allocatable emiss3d

emissions by nx,ny,level,nh,radm

• real, dimension(:,:,:), allocatable xlat

Latitude coordinates by nx,ny,nh from wrfinput file.

real, dimension(:,:,:), allocatable xlon

Longitude coordinates by nx,ny,nh from wrfinput file.

• integer grid\_id

Domain ID from wrfinput file and used in output file.

· integer julyr

julian year global attribure from wrfinput file and used in output file.

· integer julday

julian day global attribure from wrfinput file and used in output file.

integer mapproj

Map projection ID global attribure from wrfinput file and used in output file.

· integer iswater

Water ID global attribure from wrfinput file and used in output file.

· integer islake

Lake ID global attribure from wrfinput file and used in output file.

· integer isice

Ice ID global attribure from wrfinput file and used in output file.

integer isurban

Urban ID global attribure from wrfinput file and used in output file.

· integer isoilwater

Water-soil ID global attribure from wrfinput file and used in output file.

· real cenlat

Projection central latitude.

real cenlon

Projection central longitude.

real dx

Grid size (m) in W-E direction.

real dy

Grid size (m) in S-N direction.

· real trulat1

Standard parallel 1.

real trulat2

Standard parallel 2.

real moadcenlat

Mother of all domains center latitude.

real stdlon

Standard longitude.

· real pollat

Pole latitude.

real pollon

Pole longitude.

real gmt

Time zone.

real num\_land\_cat

Land cover categories number.

• character(len=10) cday

Day of the week.

• character(len=9), dimension(:), allocatable ename1

Emissions name in binary file.

• character(len=10), dimension(:), allocatable ename

Emissions name in output netcdf file.

• character(len=19) mminlu

Source of land use data.

character(len=19) cmap proj char

Projection description.

• character(len=38) title

Title from wrfinput file.

• character(len=19), dimension(ndims) sdim =(/"Time ", "DateStrLen ","west\_east ","south\_north ","bottom\_top ","emissions\_zdim\_stag"/)

Dimension description array.

character(len=19), dimension(radm) cname =(/'Sulfur Dioxide ', 'Nitrogen oxide ', 'Aldehydes ','HCHO ','Acetic Acid ', 'Ammonia ','Butanes ','Pentanes ','Alkane ', 'Ethane ','Carbon Monoxide ','Alkanes ','Terminal Alkenes', 'Alkenes ','Toluene ','Xylene ','Acetone ', 'Cresol ','Isoprene ','Methane ','PM25I ', 'PM25J ','SulfatesI ','SulfatesJ ','NitratesJ ','OrganicJ ','CrganicJ ','Elemental Carb I', 'Elemental Carb J','PM\_10 ','Nitrogen Dioxide'/)

Chemical mechanism variable emissions description.

• character(len=19) current\_date

Date in wrfiput file.

• character(len=19) mecha

mechanism name

# 3.1.1 Detailed Description

Emissions Inventorie Variables.

**Author** 

Jose Agustin Garcia Reynoso

Date

25/04/2018

Version

1.0

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#### 3.1.2 Function/Subroutine Documentation

#### 3.1.2.1 check()

Verifies no error in netcdf function call.

#### **Parameters**

status	NetCDF functions return a non-zero status codes on error.
--------	---

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Definition at line 144 of file module\_var\_nei.F90.

# 3.1.2.2 lee\_nml()

Reads dimensions from namelist file.

Obtains from domain.nml file dimension of domain dimensions.

# Author

Jose Agustin Garcia Reynoso

Date

01/22/2021

Version

1.0

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#### **Parameters**

IX	number of cell grid in W-E direction
JX	number of cell grid in S-N direction
KX	number of cell grid in vertical direction

Definition at line 168 of file module\_var\_nei.F90.

# 3.1.3 Variable Documentation

# 3.1.3.1 cday

character(len=10) var\_nei::cday

Day of the week.

Definition at line 70 of file module\_var\_nei.F90.

# 3.1.3.2 cenlat

real var\_nei::cenlat

Projection central latitude.

Definition at line 46 of file module\_var\_nei.F90.

# 3.1.3.3 cenlon

real var\_nei::cenlon

Projection central longitude.

Definition at line 48 of file module\_var\_nei.F90.

# 3.1.3.4 cmap\_proj\_char

character(len=19) var\_nei::cmap\_proj\_char

Projection description.

Definition at line 78 of file module\_var\_nei.F90.

#### 3.1.3.5 cname

```
character(len= 19), dimension(radm) var_nei::cname = (/'Sulfur Dioxide ', 'Nitrogen oxide ','Aldehydes
','HCHO ','Acetic Acid ', 'Ammonia ','Butanes ','Pentanes ','Alkane ', 'Ethane ','Carbon Monoxide
','Alkanes ','Terminal Alkenes', 'Alkenes ','Toluene ','Xylene ','Acetone ', 'Cresol ','Isoprene
','Methane ','PM25I ', 'PM25J ','SulfatesI ','SulfatesJ ','Nitrates ', 'NitratesJ ','OrganicI
','OrganicJ ','Elemental Carb I', 'Elemental Carb J','PM_10 ','Nitrogen Dioxide'/)
```

Chemical mechanism variable emissions description.

Definition at line 86 of file module\_var\_nei.F90.

# 3.1.3.6 current\_date

```
character (len=19) var_nei::current_date
```

Date in wrfiput file.

Definition at line 96 of file module var nei.F90.

#### 3.1.3.7 dx

```
real var_nei::dx
```

Grid size (m) in W-E direction.

Definition at line 50 of file module\_var\_nei.F90.

#### 3.1.3.8 dy

```
real var_nei::dy
```

Grid size (m) in S-N direction.

Definition at line 52 of file module var nei.F90.

# 3.1.3.9 emiss3d

```
real, dimension(:,:,:,:), allocatable var_nei::emiss3d
```

emissions by nx,ny,level,nh,radm

Definition at line 22 of file module\_var\_nei.F90.

# 3.1.3.10 ename

```
character (len=10), dimension(:), allocatable var_nei::ename
```

Emissions name in output netcdf file.

Definition at line 74 of file module var nei.F90.

# 3.1.3.11 ename1

```
character (len= 9), dimension(:), allocatable var_nei::ename1
```

Emissions name in binary file.

Definition at line 72 of file module\_var\_nei.F90.

#### 3.1.3.12 gmt

```
real var_nei::gmt
```

Time zone.

Definition at line 66 of file module\_var\_nei.F90.

# 3.1.3.13 grid\_id

```
integer var_nei::grid_id
```

Domain ID from wrfinput file and used in output file.

Definition at line 28 of file module\_var\_nei.F90.

# 3.1.3.14 hh

```
integer var_nei::hh
```

Start hour in binary emissions file.

Definition at line 12 of file module\_var\_nei.F90.

# 3.1.3.15 isice

```
integer var_nei::isice
```

Ice ID global attribure from wrfinput file and used in output file.

Definition at line 40 of file module var nei.F90.

# 3.1.3.16 islake

```
integer var_nei::islake
```

Lake ID global attribure from wrfinput file and used in output file.

Definition at line 38 of file module\_var\_nei.F90.

# 3.1.3.17 isoilwater

```
integer var_nei::isoilwater
```

Water-soil ID global attribure from wrfinput file and used in output file.

Definition at line 44 of file module\_var\_nei.F90.

# 3.1.3.18 isurban

```
integer var_nei::isurban
```

Urban ID global attribure from wrfinput file and used in output file.

Definition at line 42 of file module var nei.F90.

# 3.1.3.19 iswater

```
integer var_nei::iswater
```

Water ID global attribure from wrfinput file and used in output file.

Definition at line 36 of file module\_var\_nei.F90.

# 3.1.3.20 julday

```
integer var_nei::julday
```

julian day global attribure from wrfinput file and used in output file.

Definition at line 32 of file module var nei.F90.

# 3.1.3.21 julyr

```
integer var_nei::julyr
```

julian year global attribure from wrfinput file and used in output file.

Definition at line 30 of file module\_var\_nei.F90.

# 3.1.3.22 mapproj

```
integer var_nei::mapproj
```

Map projection ID global attribure from wrfinput file and used in output file.

Definition at line 34 of file module\_var\_nei.F90.

# 3.1.3.23 mecha

```
character (len=19) var_nei::mecha
```

mechanism name

Definition at line 98 of file module var nei.F90.

# 3.1.3.24 mminlu

```
character(len=19) var_nei::mminlu
```

Source of land use data.

Definition at line 76 of file module\_var\_nei.F90.

# 3.1.3.25 moadcenlat

```
real var_nei::moadcenlat
```

Mother of all domains center latitude.

Definition at line 58 of file module var nei.F90.

# 3.1.3.26 ndims

```
integer, parameter var_nei::ndims =6
```

Number dimensions to be stored in netcdf output file.

Definition at line 20 of file module\_var\_nei.F90.

# 3.1.3.27 nh

```
integer, parameter var_nei::nh =24
```

Number of hours in a day.

Definition at line 16 of file module\_var\_nei.F90.

# 3.1.3.28 nradm

```
integer var_nei::nradm
```

Number of chemical species in netcdf emissions file.

Definition at line 14 of file module\_var\_nei.F90.

# 3.1.3.29 num\_land\_cat

```
real var_nei::num_land_cat
```

Land cover categories number.

Definition at line 68 of file module\_var\_nei.F90.

# 3.1.3.30 pollat

```
real var_nei::pollat
```

Pole latitude.

Definition at line 62 of file module\_var\_nei.F90.

#### 3.1.3.31 pollon

```
real var_nei::pollon
```

Pole longitude.

Definition at line 64 of file module\_var\_nei.F90.

#### 3.1.3.32 radm

```
integer, parameter var_nei::radm =32
```

Number of chemical species in RADM mechanism.

Definition at line 18 of file module\_var\_nei.F90.

#### 3.1.3.33 sdim

```
character (len=19), dimension(ndims) var_nei::sdim =(/"Time ", "DateStrLen ","west_east ","south
_north ","bottom_top ","emissions_zdim_stag"/)
```

Dimension description array.

Definition at line 82 of file module\_var\_nei.F90.

# 3.1.3.34 stdlon

```
real var_nei::stdlon
```

Standard longitude.

Definition at line 60 of file module\_var\_nei.F90.

# 3.1.3.35 title

```
character(len=38) var_nei::title
```

Title from wrfinput file.

Definition at line 80 of file module\_var\_nei.F90.

# 3.1.3.36 trulat1

```
real var_nei::trulat1
```

Standard parallel 1.

Definition at line 54 of file module\_var\_nei.F90.

#### 3.1.3.37 trulat2

```
real var_nei::trulat2
```

Standard parallel 2.

Definition at line 56 of file module\_var\_nei.F90.

#### 3.1.3.38 xlat

```
real, dimension(:,:,:), allocatable var_nei::xlat
```

Latitude coordinates by nx,ny,nh from wrfinput file.

Definition at line 24 of file module\_var\_nei.F90.

# 3.1.3.39 xlon

```
real, dimension(:,:,:), allocatable var_nei::xlon
```

Longitude coordinates by nx,ny,nh from wrfinput file.

Definition at line 26 of file module\_var\_nei.F90.

#### 3.1.3.40 zlev

integer var\_nei::zlev

Emission Layer.

Definition at line 10 of file module\_var\_nei.F90.

# Chapter 4

# **File Documentation**

# 4.1 /Users/agustin/proyectos/NEI\_2011\_radm/source/convierte.F90 File Reference

# **Functions/Subroutines**

program nei 2011

Reads binary files from NEI 2011 and converts into netcdf.

# 4.1.1 Function/Subroutine Documentation

#### 4.1.1.1 nei\_2011()

program nei\_2011

Reads binary files from NEI 2011 and converts into netcdf.

using wrfinput to set dates, attributes and dimensions for RADM2 mechanism this is made in two steps: 1) Set hh=0 to indicate thet binary file starting at 00Z will be read reads wrfiput file obtaining time, attibutes and dimensions. stores 00z emissions data in netcdf format 2) Set hh=12 to read 12Z binary file uses previous wrfinput information and stores 12z emissions data in netcdf format

**Author** 

Jose Agustin Garcia Reynoso

Date

26/04/2018

Version

1.0

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Definition at line 17 of file convierte.F90.

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# 4.2 /Users/agustin/proyectos/NEI\_2011\_radm/source/guarda.F90 File Reference

#### **Functions/Subroutines**

• subroutine guarda\_emisiones

Stores emissions in radm categories in netcdf format.

• subroutine crea\_attr (ncid, ifl, dimids, svar, cname, cunits, id\_var)

Creates attributes for each variable in the netcdf file.

#### 4.2.1 Function/Subroutine Documentation

# 4.2.1.1 crea\_attr()

Creates attributes for each variable in the netcdf file.

Author

Jose Agustin Garcia Reynoso

Date

07/13/2020

Version

2.2

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#### **Parameters**

ncid	netcdf file ID
ifl	type of variable 0 for ratio, 1 for emissions 2 for number
dimids	ID dimensons array
svar	short variable name
cname	description variable name
cunits	units of the variable
id_var	variable ID

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Definition at line 208 of file guarda.F90.

# 4.2.1.2 guarda\_emisiones()

subroutine guarda\_emisiones

Stores emissions in radm categories in netcdf format.

Author

Jose Agustin Garcia Reynoso

Date

26/04/2018

Version

1.0

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Definition at line 21 of file guarda.F90.

# 4.3 /Users/agustin/proyectos/NEI\_2011\_radm/source/lee\_NEI.F90 File Reference

# **Functions/Subroutines**

• subroutine lee\_nei

Reads binary emissions file with radm categories.

# 4.3.1 Function/Subroutine Documentation

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# 4.3.1.1 lee\_nei()

subroutine lee\_nei

Reads binary emissions file with radm categories.

uses a global variable hh to read 00z or 12z.

**Author** 

Jose Agustin Garcia Reynoso

Date

25/04/2018

Version

1.0

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Definition at line 14 of file lee\_NEI.F90.

# 4.4 /Users/agustin/proyectos/NEI\_2011\_radm/source/lee\_wrfinput.F90 File Reference

# **Functions/Subroutines**

• subroutine lee\_wrfinput

# 4.4.1 Function/Subroutine Documentation

# 4.4.1.1 lee\_wrfinput()

subroutine lee\_wrfinput

Definition at line 11 of file lee\_wrfinput.F90.

# 4.5 /Users/agustin/proyectos/NEI\_2011\_radm/source/module\_var\_← nei.F90 File Reference

#### **Modules**

· module var\_nei

Emissions Inventorie Variables.

# **Functions/Subroutines**

• subroutine var\_nei::check (status)

Verifies no error in netcdf function call.

• subroutine var\_nei::lee\_nml (IX, JX, KX)

Reads dimensions from namelist file.

#### **Variables**

· integer var\_nei::zlev

Emission Layer.

· integer var nei::hh

Start hour in binary emissions file.

integer var\_nei::nradm

Number of chemical species in netcdf emissions file.

• integer, parameter var\_nei::nh =24

Number of hours in a day.

integer, parameter var\_nei::radm =32

Number of chemical species in RADM mechanism.

• integer, parameter var nei::ndims =6

emissions by nx,ny,level,nh,radm

Number dimensions to be stored in netcdf output file.

• real, dimension(:,:,:,:),  $allocatable var\_nei::emiss3d$ 

• real, dimension(:,:,:), allocatable var nei::xlat

Latitude coordinates by nx,ny,nh from wrfinput file.

• real, dimension(:,:,:), allocatable var\_nei::xlon

Longitude coordinates by nx,ny,nh from wrfinput file.

• integer var\_nei::grid\_id

Domain ID from wrfinput file and used in output file.

· integer var\_nei::julyr

julian year global attribure from wrfinput file and used in output file.

· integer var nei::julday

julian day global attribure from wrfinput file and used in output file.

integer var\_nei::mapproj

Map projection ID global attribure from wrfinput file and used in output file.

• integer var nei::iswater

Water ID global attribure from wrfinput file and used in output file.

• integer var\_nei::islake

Lake ID global attribure from wrfinput file and used in output file.

• integer var\_nei::isice

Ice ID global attribure from wrfinput file and used in output file.

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• integer var\_nei::isurban

Urban ID global attribure from wrfinput file and used in output file.

· integer var\_nei::isoilwater

Water-soil ID global attribure from wrfinput file and used in output file.

· real var nei::cenlat

Projection central latitude.

• real var\_nei::cenlon

Projection central longitude.

· real var nei::dx

Grid size (m) in W-E direction.

· real var\_nei::dy

Grid size (m) in S-N direction.

• real var nei::trulat1

Standard parallel 1.

real var\_nei::trulat2

Standard parallel 2.

· real var nei::moadcenlat

Mother of all domains center latitude.

· real var nei::stdlon

Standard longitude.

· real var nei::pollat

Pole latitude.

real var\_nei::pollon

Pole longitude.

real var\_nei::gmt

Time zone.

real var\_nei::num\_land\_cat

Land cover categories number.

• character(len=10) var\_nei::cday

Day of the week.

character(len=9), dimension(:), allocatable var\_nei::ename1

Emissions name in binary file.

character(len=10), dimension(:), allocatable var\_nei::ename

Emissions name in output netcdf file.

• character(len=19) var nei::mminlu

Source of land use data.

• character(len=19) var\_nei::cmap\_proj\_char

Projection description.

• character(len=38) var nei::title

Title from wrfinput file.

• character(len=19), dimension(ndims) var\_nei::sdim =(/"Time ", "DateStrLen ","west\_east ","south\_north ","bottom\_top ","emissions\_zdim\_stag"/)

Dimension description array.

character(len=19), dimension(radm) var\_nei::cname = (/'Sulfur Dioxide ', 'Nitrogen oxide ','Aldehydes ','HCHO ','Acetic Acid ', 'Ammonia ','Butanes ','Pentanes ','Alkane ', 'Ethane ','Carbon Monoxide ','Alkanes ','Terminal Alkenes', 'Alkenes ','Toluene ','Xylene ','Acetone ', 'Cresol ','Isoprene ','Methane ','PM25I ', 'PM25J ','SulfatesI ','SulfatesJ ','Nitrates ', 'NitratesJ ','OrganicJ ','Elemental Carb I', 'Elemental Carb J','PM\_10 ','Nitrogen Dioxide'/)

Chemical mechanism variable emissions description.

• character(len=19) var nei::current date

Date in wrfiput file.

• character(len=19) var nei::mecha

mechanism name

# 4.6 /Users/agustin/proyectos/NEI\_2011\_radm/source/testsuite/t\_← check.F90 File Reference

# **Functions/Subroutines**

· program test\_check

#### 4.6.1 Function/Subroutine Documentation

# 4.6.1.1 test\_check()

program test\_check

Definition at line 2 of file t\_check.F90.

# 4.7 /Users/agustin/proyectos/NEI\_2011\_radm/source/testsuite/test\_← nml.F90 File Reference

# **Functions/Subroutines**

· program nml read

Program to obtain the domain's dimensions.

# 4.7.1 Function/Subroutine Documentation

#### 4.7.1.1 nml\_read()

program nml\_read

Program to obtain the domain's dimensions.

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Date

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Version

1.0

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Definition at line 7 of file test\_nml.F90.

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