

# Package: afscISS (via r-universe)

May 24, 2026

**Title** Retrieve composition data ISS

**Version** 1.0.0

**Description** Retrieve bootstrap estimates of age/length/conditional age-at-length input sample size produced by the surveyISS package.

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**URL** <https://github.com/afsc-assessments/afscISS/>,  
<https://afsc-assessments.github.io/afscISS/>

**BugReports** <https://github.com/afsc-assessments/afscISS/issues>

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Imports** magrittr, tidytable, vroom, purrr, stringr, usethis, data.table, crayon, here, dplyr, ggplot2

**LazyData** true

**LazyDataCompression** xz

**Depends** R (>= 3.5.0), data.table

**Roxygen** list(markdown = TRUE)

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**Config/pak/sysreqs** cmake git make libgit2-dev libicu-dev libuv1-dev libssl-dev libx11-dev

**Repository** <https://jimianelli.r-universe.dev>

**Date/Publication** 2026-04-22 23:53:54 UTC

**RemoteUrl** <https://github.com/afsc-assessments/afscISS>

**RemoteRef** HEAD

**RemoteSha** a7a77fdb52ff7d045af5f113de6cdb4f43dfb26

## Contents

data_iss	2
get_bias	2
get_comp	3
get_ISS	4
get_popn	5
plot_ISS	5

<b>Index</b>	<b>7</b>
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data_iss	<i>Results from surveyISS package</i>
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### Description

A list containing the various output dataframes from the surveyISS package

### Usage

```
data_iss
```

### Format

A list

A list of ISS, age/length pop'n numbers, age/length/conditional age-at-length composition, bootstrap bias, and mean length-at-age

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get_bias	<i>Get stock-specific bootstrap bias results</i>
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### Description

Function that retrieves bootstrap bias results

### Usage

```
get_bias(
  species = 21720,
  region = "goa",
  comp = "age",
  sex_cat = 4,
  spec_case = NULL
)
```

**Arguments**

species	AFSC species code (default = 21720, pacific cod)
region	survey region. options are 'ai', 'ebs', 'ebs_slope', 'goa', and 'nebs' (default = 'goa')
comp	type of composition for which ISS desired. options are 'age', 'length', and 'caal'
sex_cat	sex category for which bootstrap bias desired, options are 0 (sexes combined pre-expansion), 1 (males), 2 (females), 12 (males-female comp that sums to 1), and 4 (sexes combined post-expansion) (default = 4)
spec_case	description string if getting bootstrap bias for special case. options are 'ai_subreg', 'bsre', 'dr', 'rebs', 'w_c_egoa', 'w140', 'wc_egoa' (default = NULL)

**Value**

a dataframe of bootstrap bias statistics

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get_comp	<i>Get stock-specific composition results</i>
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**Description**

Function that retrieves age, length, and conditional age-at-length composition for AFSC stock assessments

**Usage**

```
get_comp(
  species = 21720,
  region = "goa",
  comp = "age",
  sex_cat = 4,
  spec_case = NULL
)
```

**Arguments**

species	AFSC species code (default = 21720, pacific cod)
region	survey region. options are 'ai', 'ebs', 'ebs_slope', 'goa', and 'nebs' (default = 'goa')
comp	type of composition desired, options are 'age', 'length', and 'caal'
sex_cat	sex category for which composition is desired. options are 0 (sexes combined pre-expansion), 1 (males), 2 (females), 12 (males-female comp that sums to 1), and 4 (sexes combined post-expansion). Note that for comp = 'caal' the only sex categories available are 0 (sexes combined), 1 (males), and 2 (females) (default = 4)
spec_case	description string if getting composition for special case. options are 'ai_subreg', 'bsre', 'dr', 'rebs', 'w_c_egoa', 'w140', 'wc_egoa' (default = NULL)

**Value**

a dataframe of age, length, or conditional age-at-length composition

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<code>get_ISS</code>	<i>Get stock-specific ISS results</i>
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**Description**

Function that retrieves composition Input Sample Size results for AFSC stock assessments

**Usage**

```
get_ISS(
  species = 21720,
  region = "goa",
  comp = "age",
  sex_cat = 4,
  spec_case = NULL
)
```

**Arguments**

<code>species</code>	AFSC species code (default = 21720, pacific cod)
<code>region</code>	survey region. options are 'ai', 'ebs', 'ebs_slope', 'goa', and 'nebs' (default = 'goa')
<code>comp</code>	type of composition for which ISS desired. options are 'age', 'length', and 'caal'
<code>sex_cat</code>	sex category for which composition ISS desired. options are 0 (sexes combined pre-expansion), 1 (males), 2 (females), 12 (males-female comp that sums to 1), and 4 (sexes combined post-expansion) (default = 4)
<code>spec_case</code>	description string if getting ISS for special case. options are 'ai_subreg', 'bsre', 'dr', 'rebs', 'w_c_egoa', 'w140', 'wc_egoa' (default = NULL)

**Value**

a dataframe of composition ISS

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get_popn	<i>Get stock-specific numbers at age/length results</i>
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**Description**

Function that retrieves age and length pop'n numbers for AFSC stock assessments

**Usage**

```
get_popn(
  species = 21720,
  region = "goa",
  comp = "age",
  sex_cat = 4,
  spec_case = NULL
)
```

**Arguments**

species	AFSC species code (default = 21720, pacific cod)
region	survey region. options are 'ai', 'ebs', 'ebs_slope', 'goa', and 'nebs' (default = 'goa')
comp	type of pop'n numbers desired, options are 'age' and 'length'
sex_cat	sex category for which pop'n numbers desired. options are 0 (sexes combined pre-expansion), 1 (males), 2 (females), 3 (unsexed), and 4 (sexes combined post-expansion) (default = 4)
spec_case	description string if getting pop'n numbers for special case. options are 'ai_subreg', 'bsre', 'dr', 'rebs', 'w_c_egoa', 'w140', 'wc_egoa' (default = NULL)

**Value**

a dataframe of age or length pop'n numbers (note that age data also include mean and sd in length-at-age)

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plot_ISS	<i>Plot stock-specific ISS results</i>
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**Description**

Function that plots composition Input Sample Size results for AFSC stock assessments

**Usage**

```
plot_ISS(species, region = "goa", comp = "age", sex_cat = 4, spec_case = NULL)
```

**Arguments**

species	AFSC species code
region	survey region. options are 'ai', 'ebs', 'ebs_slope', 'goa', and 'nebs' (default = 'goa')
comp	type of composition for which ISS desired. options are 'age', 'length', and 'caal'
sex_cat	sex category for which composition ISS desired. options are 0 (sexes combined pre-expansion), 1 (males), 2 (females), 12 (males-female comp that sums to 1), and 4 (sexes combined post-expansion) (default = 4)
spec_case	description string if getting ISS for special case. options are 'ai_subreg', 'bsre', 'dr', 'rebs', 'w_c_egoa', 'w140', 'wc_egoa' (default = NULL)

**Value**

a dataframe of composition ISS

# Index

## \* datasets

data\_iss, 2

data\_iss, 2

get\_bias, 2

get\_comp, 3

get\_ISS, 4

get\_popn, 5

plot\_ISS, 5