**RAM Legacy Stock Assessment Database Quick Guide**

Below is a list of the individual tables contained in the database, followed by a list of abbreviations. Table names are consistent across database formats (R objects, Excel worksheets, Access tables; the only exception is the ‘timeseries’ table is split into two tables in the Excel version, timeseries.1 and timeseries.2).

1. **Metadata Tables**

The RAM Legacy Stock Assessment Database (RAM) is built on a stock level, where the stock definition is provided in the stock assessment. Each stock has data available from one or more assessment. Data from all assessments including older assessments can be accessed, through generally the most current accepted assessment is preferred and displayed in views tables (E and F below).

General information pertaining to stocks and to assessments are covered in the metadata tables **stock** and **assessment,** respectively. The **stock** table includes basic information specific to the stock such as naming/taxonomic/area data. The **assessment** table has basic information specific to the assessment including assessor/assessment model/years of coverage.

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| **Table** | **Description** |
| stock | General stock metadata |
| assessment | General assessment metadata |

1. **Metadata Types Tables**

The **assessment** table lists codes for the stock’s assessor and the assessment method. The **assessor** table lists the assessor represented by these codes, as well as a code for the management authority associated with that assessor. The **management** table lists the management authority for each code. The **assessmethod** table covers the codes for the assessment methods.

Similarly, the **stock** table lists an area code and a taxonomic serial number (tsn). The **area** table covers the area descriptions as well as the associated country and management authority. The **taxonomy** table displays the general taxonomic data (including scientific name) for each tsn.

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| **Table** | **Description** |
| area | Stock area metadata |
| assessmethod | Assessment method metadata |
| assessor | Stock assessor metadata |
| management | Management authority metadata |
| taxonomy | Taxonomic metadata |

1. **Data Tables**

Parameter values for all stocks and assessments are available in the **bioparams** table, which includes a notes field that provides further information pertaining to the data. The **timeseries** table lists all the time series data in RAM. There is no notes field in the **timeseries** table but if there is a note associated with a time series, a parameter string value is generated named “[“time series ID”]-NOTE-note”, and is stored in the **bioparams** table. For example, a note for the time series ‘TB’ would appear in the **bioparams** table with the ‘bioid’ “TB-NOTE-note”.

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| **Table** | **Description** |
| bioparams | All parameter data |
| timeseries | All time series data |

1. **Data Type Tables**

The **biometrics** table describes all parameter types available in the **bioparams** table, and the **tsmetrics** table describes all time series types available in the **timeseries** table.

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| **Table** | **Description** |
| biometrics | Parameter data types with descriptions |
| tsmetrics | Time series data types with descriptions |

1. **Parameter Views Tables**

In addition to the **bioparams** table (which lists all parameter data in RAM), we generate a series of views tables that display the most current parameter values for some of the most common parameter types. Each table name is of the form **bioparams\_...\_views** where ‘**…**’ is one of the items listed below. The views tables display data by stock instead of by assessment; for each parameter field, the data come from the most current assessment that contains that parameter for that stock. As a result, data in different data fields can originate from different assessments for the same stock. The **bioparams\_assessments\_views** table displays which assessment the parameter comes from, while **bioparams\_values\_views** displays the parameter values.

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| **Table** | **Description** |
| bioparams\_assessments\_views | Assessment IDs corresponding to values in bioparams\_values\_views |
| bioparams\_ids\_views | Parameter IDs corresponding to values in bioparams\_values\_views |
| bioparams\_notes\_views | Notes corresponding to values in bioparams\_values\_views |
| bioparams\_sources\_views | Sources corresponding to values in bioparams\_values\_views |
| bioparams\_units\_views | Units corresponding to values in bioparams\_values\_views |
| bioparams\_values\_views | Values by stock of common parameter types |

1. **Time Series Views Tables**

In addition to the **timeseries** table (which lists all the time series data in RAM), we generate a series of views tables that display the most current time series data for some of the most common time series types. Each table name is of the form **timeseries\_...\_views** where ‘**…**’is one of the items listed below. The views tables display data by stock instead of by assessment; for each time series field, the data come from the most current assessment that contains that time series for that stock. As a result data in different data fields can originate from different assessments for the same stock. The **timeseries\_assessments\_views** table displays which assessment the time series comes from, while **timeseries\_values\_views** displays the time series data values.

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| **Table** | **Description** |
| timeseries\_assessments\_views | Assessment IDs corresponding to values in timeseries\_values\_views |
| timeseries\_ids\_views | Time series IDs corresponding to values in timeseries\_values\_views |
| timeseries\_notes\_views | Notes corresponding to values in timeseries\_values\_views |
| timeseries\_sources\_views | Sources corresponding to values in timeseries\_values\_views |
| timeseries\_units\_views | Unitd corresponding to values in timeseries\_values\_views |
| timeseries\_values\_views | Values by stock and year of common time series types |
| timeseries\_years\_views | Year range corresponding to values in timeseries\_values\_views |

**Abbreviations:**

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| **Abbreviation** | **Description** |
| B | Biomass; may be either total biomass or spawning stock biomass |
| Bmgt | Biomass at management target reference point |
| Bmsy | Biomass at MSY |
| Cadv | Scientifically advised catch |
| CdivMSY | Catch divided by MSY |
| Cpair | Catch corresponding to TAC and Cadv |
| CPUE | Catch per unit effort |
| EFFORT | Measure of fishing effort (depends on fishery) |
| ER | Exploitation rate (annual proportion) |
| F | Fishing mortality (instantaneous rate) |
| MSY | Maximum Sustainable Yield |
| RecC | Recreational catch |
| SSB | Spawning stock biomass |
| survB | Survey biomass |
| TAC | Total allowable catch |
| TB | Total biomass |
| TC | Total catch |
| TL | Total landings |
| TN | Total abundance; in numbers |
| U | Harvest rate; may be either exploitation rate or fishing mortality |
| Umsy | Harvest rate at MSY |
| Umgt | Harvest rate at management target reference point |