Extreme Weather Research Data Sepecifications

v1.0 18 May 2023

# 1 Purpose

The New Zealand Research Information System (NZRIS) team at MBIE is coordinating a central source of data about extreme weather research and funding. This is intended as a work-in-progress data set primarily for:

* **researchers** to find out what research is happening and make connections.
* **communities** to understand the research response, where it has been directed, and to use research findings where applicable.

The NZRIS team is undertaking this work on behalf of the research, science and innovation sector. The data collected aligns with standards set by NZRIS, so that once NZRIS is up and running, this information can be incorporated our national system.

Data is provided by researchers and organisations. This means that the data in this spreadsheet belongs to the researchers and organisations who have submitted it. As it contains information provided voluntarily by researchers and organisations willing to share details on their work, it is by no means comprehensive. Some fields may be blank either because the data was not available or the submitter chose not to provide it. Note that MBIE is not responsible for the accuracy of the data, and we will direct enquiries about specific research activities to the organisation or researcher that provided the data.

This specification contains information about three types of entity:

* **awards**: decisions to allocate funding.
* **projects**: past or current research activities that may or may not have received funding.
* **outputs**: metadata about the outputs from research.

# 2 Award

There are a total of 27 elements that form the award dataset. There are 18 mandatory elements shown in bold in the table below that would designate the minimum that could be submitted for each record. These are Award ID, Local Award ID, Type, Status, Funder, Fund, Title, Description, Start Date, End Date, Keywords, Value, Māori Involvement, Benefitting Region, Lead Contributor(s), Other Named Contributor(s), Lead Organisation(s), Sub-recipient(s), End User Collaborator Organisation(s), ANZSRC Fields of Research, ANZSRC Socio-economic Objectives, Contact Name, Contact Email, Contact Phone, Provider, Date Updated, Display Contact Information in Database.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Format | Description | Guidance/Reason | Example |
| Award ID | Text, maximum 256 characters | The identifier given to this award by MBIE to identify it across different providers. | Added to the record following submission of data | EWRD-A-0001 |
| Local Award ID | Text, maximum 256 characters | The identifier used by the data provider to identify the award. | NA | MBIE-23-2013 |
| Type | Code set, either “Individual,” “Organisation,” or “Multi-Organisation.” | Whether this award has been made to an individual, organisation, or multiple organisations. | NA | NA |
| Status | Code set, either “Active,” “On Hold,” “Completed,” “Partially Completed” or “Cancelled” | The status of the award. | Needed to identify when awards are actively being utilised. | NA |
| Funder | Text, maximum 512 characters | The name of the organisation granting the award. | NA | Ministry of Business, Innovation and Employment |
| Fund | Text, maximum 512 characters | The name of the fund that the award was granted from. | NA | Endeavour Fund |
| Title | Text, maximum 512 characters | The short headline description of this award | Needed to communicate the nature of the award. | NA |
| Description | Text, maximum 2500 characters | The brief description of the award that is understandable by an informed but non-specialist reader (e.g. a public statement) | This may be the description of the expected outcomes of the award or, in the case of awarded funding for a single project, the project’s description. Needed to understand what the award is about, what the award seeks to achieve, and to enable search functionality | NA |
| Start Date | Date, ISO 8601 format | Start date as indicated in award agreement or most recent variation | NA | 2015-01-01 |
| End Date | Date, ISO 8601 format | End date as indicated in award agreement or most recent variation | NA | 2016-01-01 |
| Keywords | Text | Keywords that describe topics and/or themes of significance to the award. | Values to be comma separated, in lower case. | climate change, erosion |
| Value | Number | The value of the resources allocated as part of the award in New Zealand Dollars. If multiple resources are being allocated in this award, this is the sum of these. | To understand the total funding allocated. | 50000 |
| Māori Involvement | Code set, any of “Māori are involved in the governance of this project,” “Māori are leading the operations of this project,” “Members of the project team identify as Māori,” “This project follows Kaupapa Māori research methods, or has a Te Ao Māori lens applied,” “The outputs of this research are likely to benefit Māori,” “The outcomes or broad direction of the research, science and innovation activities are likely to benefit Māori,” “Other relevance to Māori” (to be speicified) | Comma separated list of all Māori involvement options selected. | NA | NA |
| Benefitting Region | Code set, see [Benefiting Region code set on the NZRIS Github page](https://github.com/new-zealand-research-information-system/nzris-codesets/blob/master/csv/benefiting-region.csv). | The specific New Zealand region(s) and New Zealand realm countries that the award will benefit. | Only provide this information when one or more specific region(s) are expected to benefit from the project. Supply regions with “Region” suffix, multiple regions separated by commas. Region is limited to NZ regions, NZ realm countries, and Antarctica. This is not designed to capture where the project team is based. Needed to understand expected end users of the project at the regional level. | Northland Region, Waikato Region |
| Lead Contributor(s) | Text | The contributor with overall responsibility for delivering the project. For research and development projects, this refers to the Principal Investigator or Lead Scientist | Supply names in the form; given name family name. Multiple names separated by commas. | Rosalind Franklin, Ernest Rutherford |
| Other Named Contributor(s) | Text | A named contributor listed in the application and involved in the project, whose expertise is critical to the success of the project | Supply names in the form; given name family name. Multiple names separated by commas. | Rosalind Franklin, Ernest Rutherford |
| Lead Organisation(s) | Text | Lead organisation identified in project documentation | Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information such as school, faculty or department needed. | The University of Auckland, University of Otago |
| Sub-recipient(s) | Text | Organisation participating in research and innovation, receiving funding and/or resourcing from the lead organisation | Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information such as school, faculty or department needed. | GNS Science, Scion |
| End User Collaborator Organisation(s) | Text | An organisation involved in the project which may also benefit from project outputs. | Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information such as school, faculty or department needed. | Napier City Council, Hastings District Council |
| ANZSRC Fields of Research | Code set, see [the ANZSRC fields of research on the NZRIS Github page](https://github.com/new-zealand-research-information-system/nzris-codesets/blob/master/csv/australian-and-new-zealand-standard-research-classification-anzsrc-fields-of-research-2020.csv) | The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Socio-economic Objectives associated with this award. | List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code. | 310301 or 310301 0.80, 300101 0.20 |
| ANZSRC Socio-economic Objectives | Code set, see [the ANZSRC SEO codeset on the NZRIS Github page](https://github.com/new-zealand-research-information-system/nzris-codesets/blob/master/csv/australian-and-new-zealand-standard-research-classification-anzsrc-socio-economic-objective-2020.csv). | The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Fields of Research associated with this award. | List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code. | 100103 or 100103 0.80, 100299 0.20 |
| Contact Name | Text | The name of the contact person for this award. | Needed for establishing contacts within government and the research community. | NA |
| Contact Email | Text, email address | The work email of the contact person for this award. | Needed for establishing contacts within government and the research community. | NA |
| Contact Phone | Text, phone number | The work phone number for the contact person for this award. | Needed for establishing contacts within government and the research community. | NA |
| Provider | Text, maximum 512 characters | The name of the entity providing this record. | Needed to record sources of information. | NA |
| Date Updated | Date, ISO 8601 format | The date the record was updated in the database. | Needed to record sources of information. | NA |
| Display Contact Information in Database | Boolean (yes/no) | If you specify “yes” we will include the values given for Contact Name, Contact Phone and Contact Email in the database. | NA | NA |

# 3 Project

There are a total of 25 elements that form the project dataset. There are 13 mandatory elements shown in bold in the table below that would designate the minimum that could be submitted for each record. These are Project ID, Local Project ID, Status, Title, Description, Start Date, End Date, Keywords, Māori Involvement, Benefitting Region, Associated Output IDs, Associated Award IDs, Lead Contributor(s), Other Named Contributor(s), Lead Organisation(s), Sub-recipient(s), End User Collaborator Organisation(s), ANZSRC Fields of Research, ANZSRC Socio-economic Objectives, Contact Name, Contact Email, Contact Phone, Provider, Date Updated, Display Contact Information in Database.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Format | Description | Guidance/Reason | Example |
| Project ID | Text, maximum 256 characters | The identifier given to this Project by MBIE to identify it across different providers. | Added to the record following submission of data | EWRD-P-0001 |
| Local Project ID | Text, maximum 256 characters | The identifier used by the data provider to identify the project. | NA | MBIE-23-2013 |
| Status | Code set, either “Active,” “On Hold,” “Completed,” “Partially Completed” or “Cancelled” | The status of the project. | Needed to identify when projects are actively being utilised | NA |
| Title | Text, maximum 512 characters | The short headline description of this project | Needed to communicate the nature of the project. | NA |
| Description | Text, maximum 2500 characters | The brief description of the project that is understandable by an informed but non-specialist reader (e.g. a public statement) | This may be the description of the expected outcomes of the project or, in the case of projected funding for a single project, the project’s description. Needed to understand what the project is about, what the project seeks to achieve, and to enable search functionality | NA |
| Start Date | Date, ISO 8601 format | Start date as indicated in project agreement or most recent variation | NA | 2015-01-01 |
| End Date | Date, ISO 8601 format | End date as indicated in project agreement or most recent variation | NA | 2016-01-01 |
| Keywords | Text | Keywords that describe topics and/or themes of significance to the project. | Values to be comma separated, in lower case | climate change, erosion |
| Māori Involvement | Code set, any of “Māori are involved in the governance of this project,” “Māori are leading the operations of this project,” “Members of the project team identify as Māori,” “This project follows Kaupapa Māori research methods, or has a Te Ao Māori lens applied,” “The outputs of this research are likely to benefit Māori,” “The outcomes or broad direction of the research, science and innovation activities are likely to benefit Māori,” “Other relevance to Māori” (to be speicified) | Comma separated list of all Māori involvement options selected. | NA | NA |
| Benefitting Region | Code set, see [Benefiting Region code set on the NZRIS Github page](https://github.com/new-zealand-research-information-system/nzris-codesets/blob/master/csv/benefiting-region.csv). | The specific New Zealand region(s) and New Zealand realm countries that the project will benefit | Only provide this information when one or more specific region(s) are expected to benefit from the project. Supply regions with “Region” suffix, multiple regions separated by commas. Region is limited to NZ regions, NZ realm countries, and Antarctica. This is not designed to capture where the project team is based. Needed to understand expected end users of the project at the regional level. | Northland Region, Waikato Region |
| Associated Output IDs | Text | The local identifiers of Outputs linked to this project. | Needed to establish connections between outputs and projects, separate multiple IDs with commas. | OUTPUT-1234534 |
| Associated Award IDs | Text | The local identifiers of awards linked to this project. | Needed to establish connections between awards and projects, separate multiple IDs with commas. | AWARD-C03-1234534 |
| Lead Contributor(s) | Text | The contributor with overall responsibility for delivering the project. For research and development projects, this refers to the Principal Investigator or Lead Scientist | Supply names in the form; given name family name. Multiple names separated by commas. | Rosalind Franklin, Ernest Rutherford |
| Other Named Contributor(s) | Text | A named contributor listed in the application and involved in the project, whose expertise is critical to the success of the project | Supply names in the form; given name family name. Multiple names separated by commas. | Rosalind Franklin, Ernest Rutherford |
| Lead Organisation(s) | Text | Lead organisation identified in project documentation | Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information (such as school, faculty or department) needed. | The University of Auckland, University of Otago |
| Sub-recipient(s) | Text | Organisation participating in research and innovation, receiving funding and/or resourcing from the lead organisation | Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information (such as school, faculty or department) needed. | GNS Science, Scion |
| End User Collaborator Organisation(s) | Text | An organisation involved in the project which may also benefit from project outputs. | Supply the full name of the organisation, multiple organisations separated by commas. If the organisation name contains a comma, use a semi-colon to separate names. No sub-organisational information (such as school, faculty or department) needed. | Napier City Council, Hastings District Council |
| ANZSRC Fields of Research | Code set, see [the FoR code set on NZRIS Github page](https://github.com/new-zealand-research-information-system/nzris-codesets/blob/master/csv/australian-and-new-zealand-standard-research-classification-anzsrc-fields-of-research-2020.csv) | The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Socio-economic Objectives associated with this project. | List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code. | 310301 or 310301 0.80, 300101 0.20 |
| ANZSRC Socio-economic Objectives | Code set, see [the ANZSRC SEO codeset on the NZRIS Github page](https://github.com/new-zealand-research-information-system/nzris-codesets/blob/master/csv/australian-and-new-zealand-standard-research-classification-anzsrc-socio-economic-objective-2020.csv). | The 2020 Australian and New Zealand Standard Research Classification (ANZSRC) Fields of Research associated with this project. | List one or more six-digit ANZSRC Field of Research codes separated by commas. If multiple codes are submitted, it will be assumed that there is equal weighting, if you wish to supply weightings you can supply fractions of one to two significant figures following a space after each code. | 100103 or 100103 0.80, 100299 0.20 |
| Contact Name | Text | The name of the contact person for this project. | Needed for establishing contacts within government and the research community. | NA |
| Contact Email | Text, email address | The work email of the contact person for this project. | Needed for establishing contacts within government and the research community. | NA |
| Contact Phone | Text, phone number | The work phone number for the contact person for this project. | Needed for establishing contacts within government and the research community. | NA |
| Provider | Text, maximum 512 characters | The name of the entity providing this record. | Needed to record sources of information. | NA |
| Date Updated | Date, ISO 8601 format | The date the record was updated in the database. | Needed to record sources of information. | NA |
| Display Contact Information in Database | Boolean (yes/no) | If you specify “yes” we will include the values given for Contact Name, Contact Phone and Contact Email in the database. | NA | NA |

# 4 Output

There are a total of 18 elements that form the output dataset. There are 12 mandatory elements shown in bold in the table below that would designate the minimum that could be submitted for each record. These are Output ID, Local Output ID, Type, Title, Description, Access Type, Production Date, Contributor(s), DOI, ISBN, URL, Associated Project IDs, Contact Name, Contact Email, Contact Phone, Provider, Date Updated, Display Contact Information in Database.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Format | Description | Guidance/Reason | Example |
| Output ID | Text, maximum 256 characters | The identifier given to this Output by MBIE to identify it across different providers. | Added to the record following submission of data | EWRD-O-0001 |
| Local Output ID | Text, maximum 256 characters | The identifier used by the data provider to identify the output. | NA | BOOK-01-01234 |
| Type | Code set, see [ORCID work types on the NZRIS Github page](https://github.com/new-zealand-research-information-system/nzris-codesets/blob/master/csv/orcid-supported-work-types.csv). | The type of the output as listed in the ORCID supported work types. | NA | book |
| Title | Text, max 512 characters | The title of the output | Needed to have useful contextual information about an output that can be used for analysing and clustering topics and themes. | 2016 Science and Innovation Domain Plan |
| Description | Text, max 2500 characters | Basic description of the contents of the output | For many output types (e.g. journal articles), this is the abstract. Needed to understand the content and nature of outputs. | NA |
| Access Type | Code set, either “Open Data,” “Constrained” or “Not Applicable” | The type of access available for the output. | From the NZRIS Data Specifications v2.01 p113: “Open Data” means “an open data form of output is available,” “Constrained” means “access to the output is constrained (e.g. only available through a journal subscription),” “Not Applicable” means “The output is of a form in which describing data access is not applicable.” | NA |
| Production Date | Date, ISO 8601 format | The date of publication, release, opening or granting | NA | 2015-01-01 |
| Contributor(s) | Text | The name of output contributor or creator(s) | Supply names in the form; given name family name. Multiple names separated by commas. | Rosalind Franklin, Ernest Rutherford |
| DOI | Text | A unique alphanumeric string assigned to identify content and provide a persistent link to its location on the internet | NA | NA |
| ISBN | Text | A unique numeric commercial book identifier | Supply an ISBN 10 or ISBN 13, dash separated without the “ISBN” prefix | 978-0-947524-25-8 |
| URL | Text | An address to the location of the output on the internet | NA | <https://www.mbie.govt.nz> |
| Associated Project IDs | Text, multiple values comma separated | Project identifier(s) that the output is from. | Comma separate IDs | PROJ-1234-12 |
| Contact Name | Text | The name of the contact person for this output. | Needed for establishing contacts within government and the research community. | NA |
| Contact Email | Text, email address | The work email of the contact person for this output. | Needed for establishing contacts within government and the research community. | NA |
| Contact Phone | Text, phone number | The work phone number for the contact person for this output. | Needed for establishing contacts within government and the research community. | NA |
| Provider | Text, maximum 512 characters | The name of the entity providing this record. | Needed to record sources of information. | NA |
| Date Updated | Date, ISO 8601 format | The date the record was updated in the database. | Needed to record sources of information. | NA |
| Display Contact Information in Database | Boolean (yes/no) | If you specify “yes” we will include the values given for Contact Name, Contact Phone and Contact Email in the database. | NA | NA |