**Mapping SKOS Parameter Classification Scheme to Vocab DB**

This mapping is associated with ‘SkosSampleParameterClassificationScheme.rdf’. The file essentially declares a Classification Scheme, included Categories and Parameter Terms associated with each category. The scheme has a two-tiered category structure.

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| **Skos Elements** | **Vocabulary DB Tables and [Column Names]** | **Notes/DB Schema Amendments** |
| Skos:ConceptScheme | Classification\_Scheme[Classification\_Scheme\_Name] |  |
| dc:title | Classification\_Scheme [Title] |  |
| dc:description | Classification\_Scheme [Classification\_Scheme\_Description] |  |
| dc:creator<foaf:organization<foaf:name/>/> | Classification\_Scheme [Organisation\_Name\_Id] then Organization\_Name [Organisation\_Name] |  |
| dc:publisher<foaf:name/> | Classification\_Scheme [Person\_Id] then Person [Person\_Name] |  |
| dc:rights | No mapping in DB | Should have a standard rights statement that applies to all AODN vocabs that can be inserted directly. |
| dcterms:issued | Classification\_Scheme [Date\_Added] |  |
| Skos:TopConcept | Classification\_Scheme\_Category [Classification\_Scheme\_Category\_Name] | The Classification\_Scheme\_Category\_Names selected should be those that are associated with the chosen Classification\_Scheme [Classification\_Scheme\_Name] {these associations can be found in the Classification\_Scheme\_Association or Classification\_Scheme\_Category Tables}. Skos:TopConcepts (Categories) are those that have a Classification\_Scheme\_Association [Heirarchy\_Level] = 1.  skos:TopConcept declarations for Top Categories are repeated until there are no more Categories with Heirarchy\_Level = 1 (associated with the Parameter Classification Scheme). |
| Skos:prefLabel | Classification\_Scheme\_Category [Label] |  |
| Skos:definition | Classification\_Scheme\_Category [Classification\_Scheme\_Category\_Definition] |  |
| dcterms:issued | Classification\_Scheme\_Category [Date\_Added] |  |
| Skos:inScheme | When skos:inScheme appears as a property of skos:TopConcept it refers to the Classification\_Scheme\_Name for the skos:ConceptScheme being described. |  |
| Skos:narrower | When the classification scheme has 2 or more tiers of categories, one or more skos:narrower properties is included to identify the ‘category’ resource(s) which appear immediately below this skos:TopConcept. | Skos:Concepts (Categories) that should be included as resources of Skos:narrower are found by querying the Classification\_Scheme\_Association Table for all categories (Classification\_Scheme\_Category\_Id and thence Classification\_SchemeCategory [Classification\_Scheme\_Category\_Name]) whose parent (Parent\_Category\_Name) is the skos:TopConcept in question. |
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| Skos:Concept | Classification\_Scheme\_Category [Classification\_Scheme\_Category\_Name] | As above, because there are two levels of categorization in the Parameter Classification Scheme we must now declare/describe the children Category resources that have been listed above as being skos:narrower than the skos:TopConcepts. |
| Skos:inScheme | When skos:inScheme appears as a property of a skos:Concept (which is a ‘category’ rather than a Parameter Term) it refers to the Classification\_Scheme\_Name for the skos:ConceptScheme being described. |  |
| Skos:broader | The resource described is the Classification\_Scheme\_Category [Classification\_Scheme\_Category\_Name] for the parent category (which in this scheme is a skos:TopConcept resource). |  |
| Skos:prefLabel | Classification\_Scheme\_Category [Label] |  |
| Skos:definition | Classification\_Scheme\_Category [Classification\_Scheme\_Category\_Definition] |  |
| dcterms:issued | Classification\_Scheme\_Category [Date\_Added] |  |
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| Skos:Concept | Vocabulary\_Term [Vocabulary\_Term\_UID] | Skos:Concepts declared after all child Category resources have been described are the actual Parameter Terms (which are being classified).  Vocabulary\_Term\_UIDs are selected and found by using the Term\_Category\_Classification Table. Each Parameter Term associated with one or more categories is described until there are no more classified Parameter terms. |
| Skos:inScheme | When skos:inScheme appears initially as a property of skos:Concept (Parameter Term) the resource referred to is the Classification\_Scheme\_Name for the skos:ConceptScheme being described. |  |
| Skos:broader | The resource being referred to by skos:broader property is the Classification\_Scheme\_Category [Classification\_Scheme\_Category\_Name] for the category resource assigned to this Parameter Term and also, if applicable, to the parent category resource (skos:TopConcept). | The assigned category resource is found by looking through the Term\_Category\_Classification Table and matching the Vocabulary\_Term\_Code (associated with the Vocabulary\_Term\_UID) with its Classification\_Scheme\_Category\_Name (represented by a Classification\_Scheme\_Category\_Id). If the Classification\_Scheme\_Category\_Id (in the Classification\_Scheme Association Table) has a Heirarchy\_level =2 and therefore has a parent category, the Parent\_Category\_Name is the second resource that should appear in a Skos:broader property statement. |
| Skos:inscheme | When skos:inScheme appears for a second time as a property of skos:Concept (Parameter Term) the resource referred to is the Register\_UID for the Register in which the term being described has been taken. The Register Name is found in the Vocabulary\_Term Table and this links to a Vocabulary\_Register Table (in which the Register\_UID is located). |  |
| Skos:prefLabel | Vocabulary\_Term [Vocabulary\_Term\_Name] |  |
| Skos:definition | Vocabulary\_Term [Vocabulary\_Term\_Definition] |  |
| dc:source | Vocabulary\_Term [Reference\_Source\_Id] then Reference\_Source [Citation\_String]  OR  Register\_Owner [Register\_Name] | If Reference\_Source\_Id in the Vocabulary Term table is not null, then get the Reference\_Source\_Id and check the Reference\_Source table for the Citation\_String ((e.g. P011) -BODC Parameter Usage Vocabulary).  Else, look-up Register\_Name in the Register\_Owner table. |
| dc:publisher | Reference\_Source [Organisation\_Name\_Id] then Organisation\_Name [Organisation\_Name]  OR  Register\_Owner [Organisation\_Name\_Id] then Organisation\_Name [Organisation\_Name] | If Reference\_Source\_Id in the Vocabulary Term table is not null, then get the Reference\_Source\_Id and check the Reference\_Source table for the Organisation\_Name\_Id and look-up the Organisation\_Name in the Organisation Name  Else, look-up Organisation\_Name\_Id in the Register\_Owner table and find Organisation\_name in the Organisation Name table. |
| dcterms:created | Vocabulary Term [Date\_Added] |  |

**Mapping SKOS Parameter Vocabulary Scheme to Vocab DB**

This mapping is associated with ‘SkosAODNParameterVocabulary.rdf’. The file essentially declares a Parameter Vocabulary Scheme.

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| **Skos Elements** | **Vocabulary DB Tables and [Column Names]** | **Notes** |
| Skos:ConceptScheme | Vocabulary\_Register [Register\_UID] |  |
| dc:title | Vocabulary\_Register [Register\_Name] |  |
| dc:description | Vocabulary\_Register [Register\_Content\_Summary] |  |
| dc:creator<foaf:organization<foaf:name/>/> | Register\_Owner[Organisation\_Name\_Id] then Organization\_Name [Organisation\_Name] |  |
| dc:publisher<foaf:name/> | Register\_Owner[Person\_Id] then Person [Person\_Name] |  |
| dc:rights | No mapping in DB | Should have a standard rights statement that applies to all AODN vocabs that can be inserted directly. |
| dcterms:hasVersion | Vocabulary\_Register [Register\_Version] | URL which is a path to a versioned vocabulary archive file (e.g. http//vocab/aodn.org.au/Version 1.0/Platform/). This versioned URL IS NOT used by default to reference the current Parameter scheme. The URL given at Register\_UID is used instead for routinely accessing content from this scheme. In contrast this versioned URL for accessing content would live in an archive somewhere so that we can provide access to versioned copies of the scheme when required. |
| dcterms:issued | Vocabulary\_Register [Register\_Date] |  |
| Skos:Concept | Vocabulary\_Term [Vocabulary\_Term\_UID] | This is the Parameter term. Skos:concept declarations for Parameter (in green) are repeated until there are no more Parameters in the Vocabulary. Note that there are some existing Parameter terms that should not be used as ‘Parameter terms’ – particularly not within faceted searching. These terms will eventually be removed from the vocabulary but in the interim they will not be associated with the Parameter Classification scheme – so should not appear in the Portal faceted search categories (i.e. because they won’t be associated with the Parameter Classification scheme). |
| Skos:inScheme | Vocabulary\_Register [Register\_UID] |  |
| Skos:prefLabel | Vocabulary\_Term [Vocabulary\_Term\_Name] |  |
| Skos:definition | Vocabulary\_Term [Vocabulary\_Term\_Definition] |  |
| dc:source | Vocabulary\_Term [Reference\_Source\_Id] then Reference\_Source [Citation\_String]  OR  Register\_Owner [Register\_Name] | If Reference\_Source\_Id in the Vocabulary Term table is not null, then get the Reference\_Source\_Id and check the Reference\_Source table for the Citation\_String (e.g. P011) -BODC Parameter Usage Vocabulary  ), else look-up Register\_Name in the Register\_Owner table. |
| dc:publisher | Reference\_Source [Organisation\_Name\_Id] then Organisation\_Name [Organisation\_Name]  OR  Register\_Owner [Organisation\_Name\_Id] then Organisation\_Name [Organisation\_Name] | If Reference\_Source\_Id in the Vocabulary Term table is not null, then get the Reference\_Source\_Id and check the Reference\_Source table for the Organisation\_Name\_Id and look-up the Organisation\_Name in the Organisation Name  Else, look-up Organisation\_Name\_Id in the Register\_Owner table and find Organisation\_name in the Organisation Name table. |
| dcterms:created | Vocabulary Term [Date\_Added] |  |