Entity and Attribute Definitions Report

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Total Pages:	14
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Parameters

Application:	BEC
Entities:	%
ER Diagram:	%
Include Entity Notes?	Y
Include Attribute Descriptions?	Y
Include Attribute Notes?	Y
Include Attribute Values?	Y
Include Table of Contents?	N
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Entity Name: BEC NATURAL DISTURBANCE CODE *Short Name:* BEC NDC

Plural: BEC NATURAL DISTURBANCE CODE

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

The Natural Disturbance of interest to MOF. A code used to designate a naturally occuring disturbance period process or event such as insect outbreaks, fire, disease, flooding, windstorms and avalanches that cause ecosystem change and renewal.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	BEC NATURAL DISTURBANCE CODE		N	VARCHAR2	4
	The Natural Disturbance of interest to MOF. A code used to designate a period process or event such as insect outbreaks, fire, disease, flooding, windstorms and avalanches that cause ecosystem change and renewal. The Code values range from NDT1-NDT5 inclusive.				
	DESCRIPTION		N	VARCHAR2	120
	A full description of the Natural Disturbance.				
	EFFECTIVE DATE		N	DATE	
	The date that the entry has/will become effective.				
	EXPIRY DATE		N	DATE	
	The date that the entry has/will be expired.				
	UPDATE TIMESTAMP		N	DATE	
	The date and time of the last update to this entry.				

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE event which applies to one or more BIOGEOCLIMATIC CATALOGUE

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC NDC *Primary* *Y*

BEC NATURAL DISTURBANCE CODE

Entity Name: BEC REGION CODE *Short Name:* BEC RC

Plural: BEC REGION CODE

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

The Biogeoclimatic Region of interest to MOF.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	BEC REGION CODE		N	VARCHAR2	3
	A code uniquely identifying a BEC Region.				
	DESCRIPTION		N	VARCHAR2	120
	A full description of the BEC Region Code.				
	EFFECTIVE DATE		N	DATE	
	The date that the BEC Region entry has become effective.				
	EXPIRY DATE		N	DATE	
	The date that the BEC Region entry has/will be expired.				
	UPDATE TIMESTAMP		N	DATE	
	The date and time of the last update to this entry.				

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE has occurrences of one or more SITE SERIES CATALOGUE

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC RC *Primary* *Y*

BEC REGION CODE

Entity Name: BEC ZONE CODE *Short Name:* BEC ZC

Plural: BEC ZONE CODE

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

The Biogeoclimatic Zone of interest to MOF. A code used to designate a large geographic area having similar patterns of energy flow, vegetation, and soils as a result of a broad, homogeneous macroclimate. Biogeoclimatic Zones are unique within the province of British Columbia.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	BEC ZONE CODE		N	VARCHAR2	4
	A code uniquely identifying a Biogeoclimatic Zone of interest to MOF.				
	DESCRIPTION		N	VARCHAR2	120
	A full description of the Biogeoclimatic Zone.				
	EFFECTIVE DATE		N	DATE	
	The date that the entry has/will become effective.				
	EXPIRY DATE		N	DATE	
	The date that the entry has/will be expired.				
	UPDATE TIMESTAMP		N	DATE	
	The date and time of the last update to this entry.				

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MAY BE applies to one or more BIOGEOCLIMATIC CATALOGUE

MAY BE applies to one or more BIOGEOCLIMATIC POLY STG

MAY BE identifies one or more BIOGEOCLIMATIC ZONE POLY 2MIL

* = *Relationships in primary unique identifier.*

Unique Identifiers:

BEC ZC *Primary* *Y*

BEC ZONE CODE

Entity Name: BIOGEOCLIMATIC CATALOGUE *Short Name:* BEC BC

Plural: BIOGEOCLIMATIC CATALOGUE

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

The BIOGEOCLIMATIC CATALOGUE contains the complete set of unique valid combinations of biogeoclimatic Zone, Subzone, Variant and Phase. Any other combinations are not valid.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	BIOGEOCLIMATIC CATALOGUE ID		N	NUMBER	10
	Assigned numeric identifier for a biogeoclimatic catalog entry unique within a biogeoclimatic unit.				
	SUBZONE		N	VARCHAR2	3
	A code uniquely identifying a Biogeoclimatic SubZone of interest to MOF. A code used to designate a division of a specific biogeoclimatic Zone; a geographic area with a fairly uniform regional climate and a typical pattern of vegetation and soils. Subzones are not unique. They are only meaningful in conjunction with a Zone.				
	VARIANT		Y	VARCHAR2	1
	A one digit number used to denote a division of a specific biogeoclimatic subzone; A geographic area with a more specific regional climate. A variant has a specific pattern of vegetation and soils. Variants are only meaningful within a Zone and Subzone.				
	PHASE		Y	VARCHAR2	1
	A one character code used to denote an atypical area, resulting from local relief, in the regional climate of the subzones and variants. Phases are not unique. They only have meaning in combination with a specific Zone, Subzone and Variant.				
	ZONE NAME		N	VARCHAR2	35
	A descriptive name given to a large geographic area having similar patterns of energy flow, vegetation, and soils as a result of a broad, homogeneous macroclimate. Zone names describe the major vegetation contained within the zone.				
	SUBZONE NAME		N	VARCHAR2	35
	A descriptive name given to a division of the biogeoclimatic zone. Subzone names define the normal regional climate for the division of a biogeoclimatic zone.				
	VARIANT NAME		Y	VARCHAR2	20
	A descriptive name given to a division of the biogeoclimatic subzone. Variant names usualy denote a location within the biogeoclimatic subzone e.g. Eastern or Okanagan areas within a subzone.				
	PHASE NAME		Y	VARCHAR2	15
	A descriptive name given to an atypical area, resulting from local relief, in the regional climate of the subzones and variants. Phases may denote a different type of vegetation(e.g grassland within a Douglas Fir subzone), a difference in clamitic contitions(e.g. Cold Air), etc.				
	NOTES		Y	VARCHAR2	72
	A comment on the Zone, Subzone, Variant, Phase.				
	EFFECTIVE DATE		N	DATE	
	The date that this entry is effective.				
	EXPIRY DATE		N	DATE	
	The date that this entry is/becomes expired.				
	UPDATE TIMESTAMP		N	DATE	
	The date and time that this entry was last updated.				
	UPDATE USERID		N	VARCHAR2	30
	The userid of the person who last updated the entry.				

** = Attributes in primary unique identifier.*

Relationships:

Entity Name: BIOGEOCLIMATIC CATALOGUE (cont'd) *Short Name:* BEC BC

Each Occurrence Of This Entity:

MUST BE impacted by one and only one BEC NATURAL DISTURBANCE CODE

MUST BE requires one and only one BEC ZONE CODE

MAY BE identifies code for one or more BIOGEOCLIMATIC POLY

MAY BE identifies code for one or more BIOGEOCLIMATIC POLY STG

MAY BE shows area for one or more SITE SERIES CATALOGUE

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC BC ATT *Primary N*

MUST BE requires one and only one BEC ZONE CODE
SUBZONE
VARIANT
PHASE

BEC BC *Primary Y*

BIOGEOCLIMATIC CATALOGUE ID

Entity Name: BIOGEOCLIMATIC LABEL POINT *Short Name:* BEC LBL

Plural: BIOGEOCLIMATIC LABEL POINT

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

BIOGEOCLIMATIC LABEL POINT contains the best label point for BIOGEOCLIMATIC POLY STG. BIOGEOCLIMATIC LABEL POINT is intended as a cartographic layer for displaying layers through ArcIMS.

NOT FOR ANALYTICAL PURPOSES.

Attributes:

Name	*Domain*	*Opt*	*Format*	*Length*
GEOMETRY		N	CHAR	
GEOMETRY is the Oracle Spatial SDO Geometry representation of a BIOGEOCLIMATIC LABEL POINT. It is determined via an algorithm that calculates the best location for lablelling a BIOGEOCLIMATIC POLY.				
UPDATE TIMESTAMP		N	DATE	
The date and time that this entry was last updated.				
UPDATE USERID		N	VARCHAR2	30
The userid of the person who last updated the entry.				

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

* MUST BE best label location one and only one BIOGEOCLIMATIC POLY STG

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC LBL *Primary* *Y*

MUST BE best label location one and only one BIOGEOCLIMATIC POLY STG

Entity Name: BIOGEOCLIMATIC POLY *Short Name:* BEC POLY

Plural: BIOGEOCLIMATIC POLY

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

BIOGEOCLIMATIC POLY is the spatial mapping of the stratification of a landscape into map units, according to a combination of ecological features, primarily climate and physiography . It is a hierarchical classification broken into the following levels: Zone, Subzone, Variant and Phase.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	BIOGEOCLIMATIC POLY ID		N	NUMBER	10
	Surrogate key which is not persisted between versions. For a persistent business reference, refer to the Zone, SubZone, Variant and Phase located within the BIOGEOCLIMATIC CATALOGUE. Please note, there may be many polygons for each Zone, SubZone, Variant, Phase combination.				
	FEATURE CLASS SKEY		N	NUMBER	10
	The unique key assigned to a Feature Class by the Ministry of Forests. The Feature Class Skey value for Biogeoclimatic Polygon is 435.				
	GEOMETRY		N	CHAR	
	GEOMETRY is the Oracle Spatial SDO Geometry representation of a BIOGEOCLIMATIC POLY.				
	BGC LABEL		N	VARCHAR2	9
	A concatenation of the BEC attributes Zone, Subzone, Variant and Phase to create a biogeoclimatic label suitable for map labelling. This label may include spaces to buffer each portion to the specified lengths. The first four chars are the zone, next three are the sub zone followed by one character for each of the varient and phase. Unlike the MAP LABEL, the BGC LABEL will always be 9 characters long.				
	FEATURE AREA		N	NUMBER	
	Area in square meters. This value is calculated by FME during the data load; this area may contain more precision than is appropriate for the particular geometry.				
	FEATURE LENGTH		N	NUMBER	
	Length in meters. This value is calculated by FME during the data load; this length may contain more precision than is appropriate for the particular geometry.				
	UPDATE TIMESTAMP		N	DATE	
	The date and time that this entry was last updated.				
	UPDATE USERID		N	VARCHAR2	30
	The userid of the person who last updated the entry.				

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MUST BE shows area for one and only one BIOGEOCLIMATIC CATALOGUE

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC POLY *Primary* *Y*

BIOGEOCLIMATIC POLY ID

Entity Name: BIOGEOCLIMATIC POLY 20K *Short Name:* BEC P 20K

Plural: BIOGEOCLIMATIC POLY 20K

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

BIOGEOCLIMATIC POLY 20K is a simplification of the spatial mapping found in BIOGEOCLIMATIC POLY STG. BIOGEOCLIMATIC POLY 20K is intended as a cartographic layer targeting a scale of 1:20,000.

NOT FOR ANALYTICAL PURPOSES.

Attributes:

Name	*Domain*	*Opt*	*Format*	*Length*
GEOMETRY		N	CHAR	
GEOMETRY is the Oracle Spatial SDO Geometry representation of a BIOGEOCLIMATIC POLY 20K. It is a simplified version of BIOGEOCLIMATIC POLY for display at scales near 1:20,000.				
UPDATE TIMESTAMP		N	DATE	
The date and time that this entry was last updated.				
UPDATE USERID		N	VARCHAR2	30
The userid of the person who last updated the entry.				

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

* MUST BE simplified version one and only one BIOGEOCLIMATIC POLY STG

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC P 20K *Primary* *Y*

MUST BE simplified version one and only one BIOGEOCLIMATIC POLY STG

Entity Name: BIOGEOCLIMATIC POLY 250K *Short Name:* BEC P 250K

Plural: BIOGEOCLIMATIC POLY 250K

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

BIOGEOCLIMATIC POLY 250K is a simplification of the spatial mapping found in BIOGEOCLIMATIC POLY STG. BIOGEOCLIMATIC POLY 250K is intended as a cartographic layer targeting a scale of 1:250,000.

NOT FOR ANALYTICAL PURPOSES.

Attributes:

Name	*Domain*	*Opt*	*Format*	*Length*
GEOMETRY		N	CHAR	
GEOMETRY is the Oracle Spatial SDO Geometry representation of a BIOGEOCLIMATIC POLY 250K. It is a simplified version of BIOGEOCLIMATIC POLY for display at scales near 1:250,000.				
UPDATE TIMESTAMP		N	DATE	
The date and time that this entry was last updated.				
UPDATE USERID		N	VARCHAR2	30
The userid of the person who last updated the entry.				

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

* MUST BE simplified version one and only one BIOGEOCLIMATIC POLY STG

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC P 250K *Primary* *Y*

MUST BE simplified version one and only one BIOGEOCLIMATIC POLY STG

Entity Name: BIOGEOCLIMATIC POLY STG *Short Name:* BEC POLY S

Plural: BIOGEOCLIMATIC POLY STG

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

BIOGEOCLIMATIC POLY STG is for staging of new BIOGEOCLIMATIC POLY data while it is validated and processed. It contains the spatial mapping of the stratification of a landscape into map units, according to a combination of ecological features, primarily climate and physiography . It is a hierarchical classification broken into the following levels: Zone, Subzone, Variant and Phase.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	BIOGEOCLIMATIC POLY ID		N	NUMBER	10

Surrogate key which is not persisted between versions. For a persistent business reference, refer to the Zone, SubZone, Variant and Phase located within the BIOGEOCLIMATIC CATALOGUE. Please note, there may be many polygons for each Zone, SubZone, Variant, Phase combination.

SUBZONE — N VARCHAR2 — 3

A code uniquely identifying a Biogeoclimatic SubZone of interest to MOF. A code used to designate a division of a specific biogeoclimatic Zone; a geographic area with a fairly uniform regional climate and a typical pattern of vegetation and soils. Subzones are not unique. They are only meaningful in conjunction with a Zone.

Unique combinations of Zone, Subzone, Variant and Phase found in this entity are restricted to active entries found within the BIOGEOCLIMATIC CATALOGUE.

VARIANT — Y VARCHAR2 — 1

A one digit number used to denote a division of a specific biogeoclimatic subzone; A geographic area with a more specific regional climate. A variant has a specific pattern of vegetation and soils. Variants are only meaningful within a Zone and Subzone.

Unique combinations of Zone, Subzone, Variant and Phase found in this entity are restricted to active entries found within the BIOGEOCLIMATIC CATALOGUE.

PHASE — Y VARCHAR2 — 1

A one character code used to denote an atypical area, resulting from local relief, in the regional climate of the subzones and variants. Phases are not unique. They only have meaning in combination with a specific Zone, Subzone and Variant.

Unique combinations of Zone, Subzone, Variant and Phase found in this entity are restricted to active entries found within the BIOGEOCLIMATIC CATALOGUE.

FEATURE CLASS SKEY — N NUMBER — 10

The unique key assigned to a Feature Class by the Ministry of Forests. The Feature Class Skey value for Biogeoclimatic Polygon is 435.

GEOMETRY — N CHAR

GEOMETRY is the Oracle Spatial SDO Geometry representation of a BIOGEOCLIMATIC POLY STG.

BGC LABEL — N VARCHAR2 — 9

A concatenation of the BEC attributes Zone, Subzone, Variant and Phase to create a biogeoclimatic label suitable for map labelling. This label may include spaces to buffer each portion to the specified lengths. The first four chars are the zone, next three are the sub zone followed by one character for each of the varient and phase. Unlike the MAP LABEL, the BGC LABEL will always be 9 characters long.

MAP LABEL — N VARCHAR2 — 9

A compact concatenation of the BEC attributes Zone, Subzone, Variant and Phase to create a biogeoclimatic label suitable for map labelling. This label may not include spaces, except as a spacer when a varient is not specified and a phase is specified. This label is generated by concatenating trimmed zone, subzone, varient, phase where nulls are the empty string except in the case outlined above. Unlike the BGC LABEL, the MAP LABEL varies in

Entity Name: BIOGEOCLIMATIC POLY STG (cont'd) *Short Name:* BEC POLY S

length from 4 to 9 characters.

FEATURE AREA	N	NUMBER	

Area in square meters. This value is calculated by FME during the data load; this area may contain more precision than is appropriate for the particular geometry.

FEATURE LENGTH	N	NUMBER	

Length in meters. This value is calculated by FME during the data load; this length may contain more precision than is appropriate for the particular geometry.

UPDATE TIMESTAMP	N	DATE	

The date and time that this entry was last updated.

UPDATE USERID	N	VARCHAR2	30

The userid of the person who last updated the entry.

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MUST BE requires one and only one BEC ZONE CODE

MUST BE shows area for one and only one BIOGEOCLIMATIC CATALOGUE

MUST BE provide an original one and only one BIOGEOCLIMATIC LABEL POINT

MUST BE provide an original one and only one BIOGEOCLIMATIC POLY 20K

MUST BE provide an original one and only one BIOGEOCLIMATIC POLY 250K

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC POLY S *Primary* *Y*

BIOGEOCLIMATIC POLY ID

Entity Name: BIOGEOCLIMATIC ZONE POLY 2MIL *Short Name:* BEC P 2M

Plural: BIOGEOCLIMATIC ZONE POLY 2MIL

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

BIOGEOCLIMATIC POLY 2MIL is an aggregation (union) to the zone and simplification of the spatial mapping found in BIOGEOCLIMATIC POLY STG. BIOGEOCLIMATIC POLY 2MIL an agregated version of BIOGEOCLIMATIC POLY to zones intended as a cartographic layer targeting a scale of 1:2,000,000.

NOT FOR ANALYTICAL PURPOSES.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	BIOGEOCLIMATIC_ZONE_ID		N	NUMBER	10
	This is a generated key which has no business meaning; used by ArcMap. The values represented here will not be persisted between BEC versions.				
	GEOMETRY		N	CHAR	
	GEOMETRY is the Oracle Spatial SDO Geometry representation of a BIOGEOCLIMATIC ZONE POLY 2MIL. It is an agregated version of BIOGEOCLIMATIC POLY to zones and simplified for scales near 1:2,000,000.				
	FEATURE AREA		N	NUMBER	
	Area in square meters. This value is calculated by FME from the aggregated polygons during the data load; this area may contain more precision than is appropriate for the particular geometry.				
	FEATURE LENGTH		N	NUMBER	
	Length in meters. This value is calculated by FME during the data load based on the aggregated geometry; this length may contain more precision than is appropriate for the particular geometry.				
	UPDATE TIMESTAMP		N	DATE	
	The date and time that this entry was last updated.				
	UPDATE USERID		N	VARCHAR2	30
	The userid of the person who last updated the entry.				

** = Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MUST BE requires one and only one BEC ZONE CODE

** = Relationships in primary unique identifier.*

Unique Identifiers:

BEC P 2M *Primary* *Y*

BIOGEOCLIMATIC_ZONE_ID

Notes:

This entity once contained large multi-part geometries. This hampered the performance so mutliple rows will now be used to represent each Bec Zone.

Entity Name: SITE SERIES CATALOGUE *Short Name:* BEC BSS

Plural: SITE SERIES CATALOGUE

Init. Volume: *Avg. Volume:* *Max. Volume:* *Annual Growth Rate:*

Description:

Within the BEC system, all sites capable of producing the same mature or climax plant communities within a biogeoclimatic subzone or variant. BEC Site Series is defined within a Region, Zone, Subzone, Variant and Phase, and therefore all parts help define the Site Series. As well, if there are more than one phase per site series, there will be a separate row to represent each Site Series Phase.

Attributes:

	Name	*Domain*	*Opt*	*Format*	*Length*
*	SITE SERIES CATALOGUE ID		N	NUMBER	5
	Assigned numeric identifier for a site series unique within a biogeoclimatic unit.				
	SITE SERIES		N	VARCHAR2	4
	A number from 01 to 99 representing the soil moisture regime and soil nutrient regime of a site series, relative to other site series within a subzone or variant.				
	SITE SERIES PHASE		Y	VARCHAR2	3
	A subdivision of a site series used when site or soil properties differ sufficiently to affect management prescriptions.				
	SITE SERIES VARIATION		Y	NUMBER	1
	Site variation describes divergent vegetative trends or floristic features and is usually related to short-term successional factors and recent stand history.				
	SERAL		Y	VARCHAR2	4
	Seral code; may be seral association (4 lower case alphabetic) or seral developmental or structural stage (2 upper case alphabetic)				
	DESCRIPTION		N	VARCHAR2	80
	A connotative label, made up of the names of the potentially dominant plant species for a site series.				
	EFFECTIVE DATE		N	DATE	
	The date that this entry is effective.				
	EXPIRY DATE		N	DATE	
	The date that this entry is/becomes expired.				
	UPDATE TIMESTAMP		N	DATE	
	The date and time that this entry was last updated.				
	UPDATE USERID		N	VARCHAR2	30
	The userid of the person who last updated this entry.				

* = *Attributes in primary unique identifier.*

Relationships:

Each Occurrence Of This Entity:

MUST BE is collected by one and only one BEC REGION CODE

MUST BE site series for one and only one BIOGEOCLIMATIC CATALOGUE

* = *Relationships in primary unique identifier.*

Unique Identifiers:

SS UK *Primary* *N*

MUST BE is collected by one and only one BEC REGION CODE
MUST BE site series for one and only one BIOGEOCLIMATIC CATALOGUE
SITE SERIES
SITE SERIES PHASE
SITE SERIES VARIATION
SERAL

SS *Primary* *Y*

Entity Name: SITE SERIES CATALOGUE (cont'd) *Short Name:* BEC BSS

SITE SERIES CATALOGUE ID

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