# Standardised National Feature Codes


# Intergovernmental Committee on Surveying and Mapping
## Special Interest Group on
## Object Oriented Topographic Data


## OUTCOMES FROM WORKSHOP
## 19-20 April 2004


## Version 1.0 (April 2004)

**BACKGROUND**

This Feature Code list is based on work undertaken by the Queensland member of the ICSM Special Interest Group on Object Oriented Topographic Data (Rod Thompson).  Rod brought together a diverse group of data dictionaries into a single document.  As there were far too many feature codes in Rod's original document for the purposes of this Working Group.  This Working Group has culled, sorted and amalgamated these feature codes.

In addition, feature definitions have been applied to the feature codes.  Feature definitions from a broad range of standards and dictionaries have been consulted before applying definitions to the feature codes.  Where possible, ICSM's Harmonised Data Model (HDM) feature definitions have been used.  Where it was considered that the HDM feature definition was adequate, but in need of clarification or expansion, it was still used, but in slightly expanded or edited form.  This document deals with feature codes and feature definitions specific to topographic data, and in relation to the current HDM, represent a proposed update on feature definitions that are common to both compilations

**AGREEMENTS**

1.  This workshop focused on identifying feature classes and included terms.  Associated definitions and attributes are to be addressed at a later date.  Note: some Included Terms may occur in more than one Feature Class.

2.  Consideration of key users (eg emergency services and PSMA) are to be taken into account when identifying feature classes.

3.  Identified feature classes are to be scaleless – ie define the big picture and users could then develop finer detail.

4.  Identified feature classes are to be not dependent on topological form – eg

5.  whether a feature such as a building is a point, line or polygon; or a combination of all three.  Users are to be able to define these based on their requirements.

6.  Data storage systems (software/operating systems/geometry type etc) are not to be addressed by this Committee.

7.  With the exception of a few cartographic necessities, only real world features are to be identified.

8.  For some elements there has been a grouping using the term 'xxx_like'.

9.  Numeric codes are not to be used.  It was noted that numeric codes are preferred where users speak more that one language – this is not an issue in Australia & New Zealand.

10. A feature class name will not be constrained by a maximum number of characters.

11. A feature class name will not be case sensitive.  In this document all names will be in lower case only – this includes the first letter of a feature class name.  Users may opt to use capital letters if they wish.

12. Spaces will not be used to separate words and words are not to be joined together without a separation.  An underscore (xxx_yyy) is to be used.

13. The system shall not use any other special character unless specifically identified by this data dictionary.  This includes an under score at the beginning of a feature class name.  Features specifically noted as not to appear anywhere in a feature class's name are:

| | |
|---|---|
| __ | double underscore |
| ( ) | brackets |
| \ or / | forward or back slash |
| - | hyphens |
| * | star |

# THEME

**cultural**
**framework**
**hydrographic**
**marine**
**physiography**
**relief**
**survey**
**transport**
**utility**
**vegetation**

# FEATURE CODE LIST

## cultural

| | | |
|---|---|---|
| administrative_area | fence | sign |
| aquaculture_facility | grain_store | spillway |
| breakwater | mine | stock_yard |
| building_complex | monument | tank |
| built_up_area | navigation_aid | target_range |
| cemetery | parking_area | tower |
| conveyor | place | well |
| dam_wall | pondage | |
| dumping_ground | recreation_facility | |

## framework

| | |
|---|---|
| coastline | mainland |
| island_marine | sea |

## hydrography

| | | |
|---|---|---|
| gauging_station | water_structure | watercourse |
| shoreline | waterbody | watercourse_connector |

## marine

| | | |
|---|---|---|
| marine_place | reef | shoal |
| offshore_construction | rock_marine | wreck |

# physiography

| | | |
|---|---|---|
| bay | flat | ridge |
| beach | island_terrestrial | rock_terrestrial |
| cave | mountain | sand |
| cliff | named_natural_region | snow_like |
| cutting | pass | valley |
| distorted_surface | peninsula | |
| embankment | plateau | |

# relief

| | |
|---|---|
| contour | relative_height |
| hypsometric_area | spot_elevation |

# survey

control_point

# transport

| | | |
|---|---|---|
| airport | harbour | road |
| cableway | heliport | runway |
| crossing | launching_ramp | traffic_control_device |
| dock | railway | wharf |
| ferry_route | railway_station | |

# utility

| | | |
|---|---|---|
| communication_cable | electricity_facility | pipeline |
| communication_facility | electricity_line | pipeline_facility |

# vegetation

| | | |
|---|---|---|
| clearing | forest | swamp |
| cropland | orchard | tree |
| grassland | plantation | vineyard |
| mangrove | scrub | windbreak |

| feature class: | **administrative_area** |
| --- | --- |
| theme: | **cultural** |
| definition: | an area of land or sea defined by an authority for a specific purpose |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

aboriginal reserve
conservation area/park
county
declared fish habitat
district
ecological area

environmental protection
   area
fishing zone
forest reserve
local government area
military reserve
native title claim

mine subsidence area
municipal borough
municipal shire
municipal park
nature reserve
national park
parish

prohibited area
prohibited flying area
special purpose
submarine cable area
traffic separation zone
training area
water reserve

**see also:**

| feature class: | **aquaculture_facility** |
| --- | --- |
| theme: | **cultural** |
| definition: | facility used for the commercial breeding and keeping of aquatic animals or plants in tanks, ponds and leased areas within natural waters |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

crayfish farm
fish farm
fish hatchery

fish pen
fishery
hatchery

mussel bed
oyster lease
yabby farm

**see also:**
building_complex
recreational_facility

| feature class: | **breakwater** |
| --- | --- |
| theme: | **cultural** |
| definition: | a structure built to break the force of waves so as to protect a beach, harbour, or other waterfront facility |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

groyne
mole

seawall
training wall

wave trap

**see also:**

| feature class: | **building_complex** |
|---|---|
| theme: | **cultural** |
| definition: | a single building or group of buildings and associated facilities which function together as a unit |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ]<br>operational status   [abandoned, ruin etc] |

**possible included terms:**

| | | | |
|---|---|---|---|
| abattoir | barracks | fort | radio station |
| abbey | blast furnace | glasshouse | rest home |
| academy | boathouse | grandstand | retirement village |
| ambulance depot | bowling alley | gauging station | ruins |
| amphitheatre | branch office | homestead | school |
| amusement centre | brewery | hospital | shed |
| armoury | brickworks/yard | mill | shopping centre |
| army camp | broadcasting station | mining centre | swimming centre |
| art gallery | caravan park | mission | university |
| asylum | club | post office | woolshed |
| auditorium | defence facility | place of worship | |
| automobile plant | education facility | plaza | |
| bandstand | emergency services centre | police station | |
| barn | factory | pumping station | |

**see also:**
airport
recreation_facility

| feature class: | **built_up_area** |
|---|---|
| theme: | **cultural** |
| definition: | an area of urban settlement |
| possible attributes  [possible values]: | |

**possible included terms:**

**see also:**

| feature class: | **cemetery** |
|---|---|
| theme: | **cultural** |
| definition: | a place for burying the dead |
| possible attributes [possible values]: | name [  ] |
| | type [  ] |

**possible included terms:**

| | | |
|---|---|---|
| crematorium | grave | grave yard |

**see also:**

| feature class: | **conveyor** |
|---|---|
| theme: | **cultural** |
| definition: | a man-made structure consisting of flexible belts, used to move materials or people |
| possible attributes [possible values]: | name [  ] |
| | type [  ] |

**possible included terms:**

conveyor belt

**see also:**

| feature class: | **dam_wall** |
|---|---|
| theme: | **cultural** |
| definition: | a barrier constructed across a watercourse to control the flow or raise the level of water |
| possible attributes [possible values]: | name [  ] |
| | type [  ] |
| | length [  ] |
| | height [  ] |

**possible included terms:**

| | | |
|---|---|---|
| barrage | gauging weir | regulator |
| gauging dam | lock | weir |

**see also:**

| feature class: | **dumping_ground** |
|---|---|
| theme: | **cultural** |
| definition: | an area for disposal of various types of material |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| disposal area | garbage tip | liquid waste disposal area | transfer station |
| dump | junk yard | rubbish disposal site | |
| dump site | landfill | tip | |

**see also:**

| feature class: | **fence** |
|---|---|
| theme: | **cultural** |
| definition: | a structure which encloses, divides or bounds an area |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

| | | |
|---|---|---|
| stone wall | vermin proof fence | wall |

**see also:**

| feature class: | **grain_store** |
|---|---|
| theme: | **cultural** |
| definition: | a man-made structure used to store grain |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

| | | |
|---|---|---|
| bin | hopper | silo |
| granary | silage pit | |

**see also:**

| feature class: | **mine** |
|---|---|
| theme: | **cultural** |
| definition: | an excavation in the earth for the purpose of extracting material |
| possible attributes [possible values]: | name [ ] |
| | type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| borrow pit | gravel pit | placer | stockpile |
| clay pit | mineral pile | quarry | strip |
| coalfield | mullock heap | sand pit | tailing dump |
| dredge tailings | opal field | shaft | |
| excavation | open cut | slag heap | |
| goldfield | pit | spoil area | |

**see also:**

| feature class: | **monument** |
|---|---|
| theme: | **cultural** |
| definition: | a structure erected as a memorial. |
| possible attributes [possible values]: | name [ ] |
| | type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| cairn | cross | head stone | shrine |
| column | grave marker | obelisk | statue |

**see also:**

| feature class: | **navigation_aid** |
|---|---|
| theme: | **cultural** |
| definition: | man-made structure to guide vessels, vehicles or aircraft |
| possible attributes [possible values]: | name [ ] |
| | type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| beacon | fan marker | light | taxiway light |
| buoy | fog signal | lighthouse | |
| channel marker | hazard marker | light vessel | |
| chequered marker | landmark | marker | |

**see also:**

| feature class: | **parking_area** |
|---|---|
| theme: | **cultural** |
| definition: | an area set aside for the parking of motor vehicles or aircraft |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

| | | |
|---|---|---|
| lay by | parking station | wayside stop |
| road side rest area | truck bay | |

**see also:**


| feature class: | **place** |
|---|---|
| theme: | **cultural** |
| definition: | a separately identifiable cultural or natural area with definite or indefinite boundaries |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| archaeological site | historic site | lookout | village |
| city | landmark | suburb | |
| fountain | locality | town | |

**see also:**


| feature class: | **pondage** |
|---|---|
| theme: | **cultural** |
| definition: | an area of shallow water with walls or banks created for a specific purpose |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

| | | |
|---|---|---|
| aeration  beds | salt evaporator | sludge pond |
| evaporation pond | settling pond | tailing pond |
| filtration bed | sewage farm | treatment works |

**see also:**

| feature class: | **recreation_facility** |
|---|---|
| theme: | **cultural** |
| definition: | a facility created or maintained for recreational purposes |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| amusement park | bowling green | oval | skateboard park |
| animal sanctuary | driving range | park | sporting ground |
| arboretum | equestrian centre | picnic area | sports complex |
| arena | exhibition ground | playground | tennis courts |
| athletic field | fairground | racecourse | training track |
| athletic oval | golf course | rodeo ground | velodrome |
| bird sanctuary | memorial park | safari park | zoo |
| botanical garden | motor track | show ground | |

**see also:**
airport
building_complex

| feature class: | **sign** |
|---|---|
| theme: | **cultural** |
| definition: | a man-made structure or devise used to convey information |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | |
|---|---|---|
| | distance post | semaphore |
| bill board | guide post | sign post |
| distance marker | hoarding | snow pole |

**see also:**

| feature class: | **spillway** |
|---|---|
| theme: | **cultural** |
| definition: | a constructed path or channel for excess water to pass over or beside a dam |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| flume | race | sluice | water race |

**see also:**

feature class: **stock_yard**

theme: **cultural**

definition: an enclosed area used to hold livestock

possible attributes [possible values]: name [ ]
type [ ]

**possible included terms:**

feed lot            intensive livestock facility        yard
holding pen         sales yard

**see also:**


feature class: **tank**

theme: **cultural**

definition: a structure used to store fluids

possible attributes [possible values]: name [ ]
type [water, petroleum, oil, gas, waste   etc   ]

**possible included terms:**

**see also:**


feature class: **target_range**

theme: **cultural**

definition: a facility used for practice and sports shooting

possible attributes [possible values]: name [ ]
type [ ]

**possible included terms:**

archery range       clay pigeon range      missile site            rocket range
ballistic range     firing range           pistol range
bombing range       gunnery                rifle range

**see also:**
recreation_facility

| feature class: | **tower** |
|---|---|
| theme: | **cultural** |
| definition: | a tall framework or structure, the elevation of which is functional |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ]<br>elevation  [   ]<br>relative height   [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| antenna | flare pipe | stack | wind mill |
| chimney | intake tower | steeple | wind pump |
| control tower | light pole | telephone tower | wind turbine |
| cooling tower | mast | television mast | windsock |
| electricity pylon | mooring mast | water intake | |
| fire lookout | pylon | water tower | |
| flag pole | smokestack | wind generator | |

**see also:**

| feature class: | **well** |
|---|---|
| theme: | **cultural** |
| definition: | a hole dug into the earth, usually for the extraction of liquids or gasses |
| possible attributes  [possible values]: | name  [   ]<br>type  [gas, oil, water, brine, artesian, native,   etc   ] |

**possible included terms:**

| | | |
|---|---|---|
| bore | sump | water well |

**see also:**

| | |
|---|---|
| feature class: | **coastline** |
| theme: | **framework** |
| definition: | the boundary between land or internal waters and the sea |
| possible attributes  [possible values]: | type  [mean high water, lowest astronomical tide, low water   etc   ] |

**possible included terms:**
shore

**see also:**

| | |
|---|---|
| feature class: | **island_marine** |
| theme: | **framework** |
| definition: | an area of dry or relatively dry land surrounded by the sea |
| possible attributes  [possible values]: | name  [   ]<br>group name  [   ]<br>type  [   ] |

**possible included terms:**

| | | |
|---|---|---|
| atoll | coral island | islet |
| cay | isle | key |

**see also:**

| | |
|---|---|
| feature class: | **mainland** |
| theme: | **framework** |
| definition: | an area of continental land, including Tasmania and New Zealand's North and South Islands |
| possible attributes  [possible values]: | name  [   ] |

**possible included terms:**

**see also:**

| | |
|---|---|
| feature class: | **sea** |
| theme: | **framework** |
| definition: | the great body of salt water of the oceans |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**
ocean

**see also:**

| feature class: | **gauging_station** |
|---|---|
| theme: | **hydrographic** |
| definition: | a facility to measure water level or flow |
| possible attributes [possible values]: | name [  ]<br>type [  ] |

**possible included terms:**

river gauging station          tide station

**see also:**

| feature class: | **shoreline** |
|---|---|
| theme: | **hydrographic** |
| definition: | the boundary between land and inland water |
| possible attributes [possible values]: | type [  ] |

**possible included terms:**

bank                    waterline

**see also:**

| feature class: | **water_structure** |
|---|---|
| theme: | **hydrographic** |
| definition: | a naturally occurring water feature which may or may-not have been modified by human activity |
| possible attributes [possible values]: | name [  ]<br>type [  ] |

**possible included terms:**

| cascade | gnamma hole | spring |
| cataract | hot spring | waterfall |
| geyser | rapid | water hole |

**see also:**

| | |
|---|---|
| feature class: | **waterbody** |
| theme: | **hydrographic** |
| definition: | a body of inland water in which the flow is minor |
| possible attributes [possible values]: | name [ ]<br>type [lake, reservoir etc ]<br>perenniality [perennial, intermittent, mainly dry, seasonal etc ]<br>hierarchy [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| backwater | lagoon | reservoir | waterhole |
| billabong | lake | rock hole | |
| elongated waterhole | pond | stock dam | |
| farm dam | pool | turkey nest | |

**see also:**

| | |
|---|---|
| feature class: | **watercourse** |
| theme: | **hydrographic** |
| definition: | a natural or man-made channel along which water flows from time-to-time |
| possible attributes [possible values]: | name [ ]<br>type [natural, man-made etc ]<br>perenniality [perennial, intermittent, mainly dry, seasonal etc ]<br>hierarchy [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| anabranch | channel | estuary | run |
| bed | course | inlet | stream |
| bore drain | creek | meander | tailrace |
| branch | distributary | overflow channel | tributary |
| brook | double line | reach | waterway |
| burn | drain | river | |
| canal | dredge line | rivulet | |

**see also:**
pipeline

| | |
|---|---|
| feature class: | **watercourse_connector** |
| theme: | **hydrographic** |
| definition: | an artificial line used to connect watercourses across waterbodies to enable network analysis |
| possible attributes [possible values]: | |

**possible included terms:**

**see also:**

| feature class: | **marine_place** |
|---|---|
| theme: | **marine** |
| definition: | a separately identifiable cultural or natural area in a sea |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| gut | passage | sound | trench |
| narrows | roadstead | strait | trough |

**see also:**

| feature class: | **offshore_construction** |
|---|---|
| theme: | **marine** |
| definition: | man-made structure surrounded by sea |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | |
|---|---|---|
| oil platform | petroleum platform | pontoon |
| oil rig | platform | |

**see also:**

| feature class: | **reef** |
|---|---|
| theme: | **marine** |
| definition: | an area of rock or coral, lying near the surface of the sea – may be visible at low tide, but is usually covered by water |
| possible attributes [possible values]: | name [ ]<br>type [coral   etc ]<br>submergence [submerged, awash, bare   etc  ] |

**possible included terms:**

| | | |
|---|---|---|
| atoll | coral head | fringing reef |

**see also:**

| | |
|---|---|
| feature class: | **rock_marine** |
| theme: | **marine** |
| definition: | isolated large mass of stone surrounded by sea that is usually above water for part of the day |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ]<br>submergence  [submerged, awash, bare   etc   ] |

**possible included terms:**


**see also:**


| | |
|---|---|
| feature class: | **shoal** |
| theme: | **marine** |
| definition: | an area of sand or mud, lying near the surface of the sea – may be visible at low tide, but is usually covered by water |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| bank | bench | offshore bar | shallows |
| bar | hook | sand | |

**see also:**


| | |
|---|---|
| feature class: | **wreck** |
| theme: | **marine** |
| definition: | remains of a vessel or aircraft, either submerged or visible |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ]<br>submergence  [submerged, awash, bare   etc   ] |

**possible included terms:**

| | |
|---|---|
| dredge hulk | hulk |

**see also:**

| feature class: | **bay** |
| --- | --- |
| theme: | **physiography** |
| definition: | a recess in the shore of a sea, waterbody or watercourse |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | |
| --- | --- | --- |
| bight | fjord | inlet |
| cove | gulf | mouth |
| drowned valley | harbour | port |

**see also:**

| feature class: | **beach** |
| --- | --- |
| theme: | **physiography** |
| definition: | gently sloping shore which is washed by waves or tides – this may occur adjacent to sea, waterbody or watercourse |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**
berm

**see also:**

| feature class: | **cave** |
| --- | --- |
| theme: | **physiography** |
| definition: | a naturally formed, subterranean open area or chamber |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
| --- | --- | --- | --- |
| cave | doline | karst | sinkhole |
| cavern | grotto | sink | |

**see also:**

| feature class: | **cliff** |
| --- | --- |
| theme: | **physiography** |
| definition: | a high steep face of rock and/or compacted soil |
| possible attributes [possible values]: | name [  ] |
| | type [  ] |

**possible included terms:**

| | | |
| --- | --- | --- |
| bluff | escarpment | scarp |
| crag | precipice | |

**see also:**

| feature class: | **cutting** |
| --- | --- |
| theme: | **relief** |
| definition: | an excavation in the earths surface to create a thoroughfare for a road, railway or watercourse |
| possible attributes [possible values]: | name [  ] |
| | type [  ] |

**possible included terms:**

**see also:**

| feature class: | **distorted_surface** |
| --- | --- |
| theme: | **physiography** |
| definition: | an area where human or vehicular movement is difficult due to the fractured nature of the surface of the ground |
| possible attributes [possible values]: | name [  ] |
| | type [  ] |

**possible included terms:**

| | | |
| --- | --- | --- |
| landslide | moraine | talus slope |
| landslip | scree | |

**see also:**

| | |
|---|---|
| feature class: | **embankment** |
| theme: | **relief** |
| definition: | artificial bank of earth and/or stone built above a natural surface |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| levee | levee bank | retaining wall | stopbank |

**see also:**

| | |
|---|---|
| feature class: | **flat** |
| theme: | **physiography** |
| definition: | a region of flat or gently sloping land which may be subject to inundation on a regular or irregular basis. |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | |
|---|---|---|
| claypan | intertidal flat | saline coastal |
| foreshore | land subject to inundation | tidal |

**see also:**

| | |
|---|---|
| feature class: | **island_terrestrial** |
| theme: | **physiography** |
| definition: | an area of dry or relatively dry land usually surrounded by inland water |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

**see also:**

| feature class: | **mountain** |
|---|---|
| theme: | **physiography** |
| definition: | a markedly elevated landform usually with a well formed summit |
| possible attributes [possible values]: | name [ ] |
| | type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| arête | crest | hillock | kopje |
| buttress | dike | hillside | lava cone |
| caldera | dome | hummock | peak |
| cauldron | foothill | intrusion | sugarloaf |
| cinder cone | fumarole | knob | |
| crater | hill | knoll | |

**see also:**

| feature class: | **named_natural_region** |
|---|---|
| theme: | **physiography** |
| definition: | a separately identifiable naturally occurring region which has been named |
| possible attributes [possible values]: | name [ ] |
| | type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| desert | plain | prairie | rangeland |

**see also:**

| feature class: | **pass** |
|---|---|
| theme: | **physiography** |
| definition: | a gap in a range of mountains or hills permitting easier passage from one side to the other |
| possible attributes [possible values]: | name [ ] |
| | type [ ] |

**possible included terms:**

| | |
|---|---|
| gap | saddle |

**see also:**

| feature class: | **peninsula** |
|---|---|
| theme: | **physiography** |
| definition: | a body of land jutting out into, and nearly surrounded, by water |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | |
|---|---|---|
| cape | head | promontory |
| foreland | headland | prong |

**see also:**

| feature class: | **plateau** |
|---|---|
| theme: | **physiography** |
| definition: | an elevated area of land with a flat or lightly sloping surface |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| breakaway | mesa | table knoll | jump-up |
| butte | tableland | table mount | |

**see also:**

| feature class: | **ridge** |
|---|---|
| theme: | **physiography** |
| definition: | a long, narrow elevation of land with steep sides |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| esker | range | ridge line | spur |
| mountain range | razorback | rise | |

**see also:**

feature class: **rock_terrestrial**

theme: **physiography**

definition: isolated large mass of stone

possible attributes [possible values]: name [ ]
type [ ]

**possible included terms:**

| | | | |
|---|---|---|---|
| arch | crevice | joint | pinnacle |
| boulder | fault | needle | rock column |
| crag | fissure | outcrop | |
| crevasse | formation | pillar | |

**see also:**

---

feature class: **sand**

theme: **physiography**

definition: an area of loose sand more or less devoid of vegetation

possible attributes [possible values]: name [ ]
type [ ]

**possible included terms:**

| | | |
|---|---|---|
| sand dune | sand field | sand ridge |
| dune | sand hill | |

**see also:**

---

feature class: **snow_like**

theme: **physiography**

definition: an area of land composed primarily of ice and snow

possible attributes [possible values]: name [ ]
type [ ]

**possible included terms:**

| | | | |
|---|---|---|---|
| continental glacier | glacier | ice shelf | tongue |
| continental ice/ice | ice peak | snow field | tundra |

**see also:**

| | |
|---|---|
| feature class: | **valley** |
| theme: | **physiography** |
| definition: | a long narrow depression in the Earth's surface usually containing a watercourse |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| canyon | dale | gully | vale |
| chasm | depression | hollow | |
| cirque | dip | ravine | |
| crest | gorge | rift | |

**see also:**

| feature class: | **contour** |
| --- | --- |
| theme: | **relief** |
| definition: | the representation of an imaginary line on the ground joining points of equal elevation |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

**see also:**

| feature class: | **hypsometric_area** |
| --- | --- |
| theme: | **relief** |
| definition: | an area bounded by contours |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

**see also:**

| feature class: | **relative_height** |
| --- | --- |
| theme: | **relief** |
| definition: | the height of a feature above its base |
| possible attributes [possible values]: | height [ ] |

**possible included terms:**

**see also:**

| feature class: | **spot_elevation** |
| --- | --- |
| theme: | **relief** |
| definition: | a point on the earth's surface which has a known elevation |
| possible attributes [possible values]: | height [ ]<br>vertical accuracy [ ] |

**possible included terms:**

**see also:**

| | |
|---|---|
| feature class: | **control_point** |
| theme: | **survey** |
| definition: | a permanent marked point, the geographic position <u>and</u> elevation of which has been determined by geodetic survey |
| possible attributes [possible values]: | name [ ] <br> type [ ] <br> class [ ] |

## possible included terms:

| | | | |
|---|---|---|---|
| bench mark | horizontal control point | traverse station | trigonometrical station |
| elevation point | standard survey mark | triangulation station | waypoint |
| geodetic mark | survey monument | trig station | |

## see also:

| feature class: | **airport** |
|---|---|
| theme: | **transport** |
| definition: | an area reserved for aircraft operations |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**
aerodrome

**see also:**
building-complex

| feature class: | **cableway** |
|---|---|
| theme: | **transport** |
| definition: | a man-made structure consisting of cables slung between elevated features used to assist movement of people or materials |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| cableway | flying fox | hand wire | ski lift |
| chairlift | funicular | hardwire | walk wire |

**see also:**

| feature class: | **crossing** |
|---|---|
| theme: | **transport** |
| definition: | a structure that facilitates the crossing of a road, railway or watercourse over, under or through another feature |
| possible attributes  [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| bridge | floodway | level crossing | tunnel |
| causeway | flyover | overpass | underpass |
| clover leaf intersection | ford | subway | viaduct |

**see also:**

| feature class: | **dock** |
| --- | --- |
| theme: | **transport** |
| definition: | a structure where a vessel is constructed or repaired |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | |
| --- | --- | --- |
| dockyard | dry harbour | graving yard |
| dry dock | floating dock | shipyard |

**see also:**

| feature class: | **ferry_route** |
| --- | --- |
| theme: | **transport** |
| definition: | a route on water which is regularly used for transportation of people and materials |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | |
| --- | --- |
| punt | vehicle ferry |

**see also:**

| feature class: | **harbour** |
| --- | --- |
| theme: | **transport** |
| definition: | an area of water where ships, planes or other watercraft can dock |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | | |
| --- | --- | --- | --- |
| anchorage | boat harbour | inner harbour | mooring |
| berth | haven | marina | port |

**see also:**
dock

| | |
|---|---|
| feature class: | **heliport** |
| theme: | **transport** |
| definition: | a landing place for helicopters |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

helipad                    landing platform

**see also:**


| | |
|---|---|
| feature class: | **launching_ramp** |
| theme: | **transport** |
| definition: | a man-made structure to facilitate launching or retrieving a vessel from water |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |

**possible included terms:**

patent slip                ramp

**see also:**


| | |
|---|---|
| feature class: | **railway** |
| theme: | **transport** |
| definition: | a permanent way having one or more rails which provides a track for trains or trams |
| possible attributes  [possible values]: | name  [   ] |
| | type  [   ] |
| | gauge  [   ] |
| | lines  [multiple, single, metro   etc   ] |
| | status  [under construction, underground, abandoned, disused   etc   ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| loop line | passing line | siding | tramline |
| monorail | points | spur line | tramway |

**see also:**

| feature class: | **railway_station** |
|---|---|
| theme: | **transport** |
| definition: | a facility which is regularly used for loading and unloading of people and materials onto trains |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

platform                  stop

**see also:**

| feature class: | **road** |
|---|---|
| theme: | **transport** |
| definition: | an open way for the passage of vehicles, persons or animals on land |
| possible attributes [possible values]: | name [ ]<br>route number [ ]<br>status [abandoned, proposed, under construction,   etc ]<br>classification [primary, secondary, minor, 4WD, track, footpath   etc ]<br>surface [unsealed   etc ]<br>lanes [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| access ramp | distributor | mall | thoroughfare |
| avenue | driveway | motorway | throughway |
| bike path | expressway | parkway | tollway |
| boardwalk | fire trail | roundabout | track |
| boulevard | footpath | sidewalk | trail |
| bridle track | freeway | stairs | way |
| by-pass | highway | steps | |
| carriageway | ladder | stock route | |
| cul de sac | lane | street | |

**see also:**

| feature class: | **runway** |
|---|---|
| theme: | **transport** |
| definition: | a straight path used for the landing, taxiing and take-off of aircraft |
| possible attributes [possible values]: | name [  ]<br>type [  ]<br>surface [  ] |

**possible included terms:**

| | | |
|---|---|---|
| landing area | landing ground | landing stage |
| landing field | landing site | landing strip |

**see also:**


| feature class: | **traffic_control_device** |
|---|---|
| theme: | **transport** |
| definition: | a devised used to regulate movement associated with a road, railway or watercourse |
| possible attributes [possible values]: | name [  ]<br>type [  ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| boom | gate | slip rail | toll gate |
| cattle grid | gateway | stock grid | turnstile |

**see also:**


| feature class: | **wharf** |
|---|---|
| theme: | **transport** |
| definition: | a structure where a vessel is able to berth – usually used for loading and unloading people and materials |
| possible attributes [possible values]: | name [  ]<br>type [  ] |

**possible included terms:**

| | | |
|---|---|---|
| jetty | pier | quay |

**see also:**
dock

| | |
|---|---|
| feature class: | **communication_cable** |
| theme: | **utility** |
| definition: | a cable used for transmitting and/or receiving electronic communication signals |
| possible attributes [possible values]: | name [ ] |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**
submarine cable            telephone line

**see also:**

| | |
|---|---|
| feature class: | **communication_facility** |
| theme: | **utility** |
| definition: | facility used for transmitting and/or receiving electronic communication signals |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| array | dome | reflector | television tower |
| dish | exchange | repeater tower | tracking station |
| disk | microwave tower | responder beacon | transmitter |

**see also:**
tower

| | |
|---|---|
| feature class: | **electricity_facility** |
| theme: | **utility** |
| definition: | a man-made structure used to generate or transmission of electricity |
| possible attributes [possible values]: | name [ ]<br>type [ ] |

**possible included terms:**
power station            sub-station            wind farm

**see also:**

| feature class: | **electricity_line** |
|---|---|
| theme: | **utility** |
| definition: | wire(s) used for the transmission of electricity |
| possible attributes [possible values]: | voltage  [   ]<br>position  [underground, elevated, submerged   etc   ] |

**possible included terms:**

transmission line          powerline

**see also:**

| feature class: | **pipeline** |
|---|---|
| theme: | **utility** |
| definition: | a pipe used to transport gasses or liquids |
| possible attributes [possible values]: | name  [   ]<br>type  [water, gas, sewage, slurry, oil   etc   ] |

**possible included terms:**

conduit          sewerage

**see also:**

| feature class: | **pipeline_facility** |
|---|---|
| theme: | **utility** |
| definition: | a facility which supports the transportation and delivery of gasses or liquids through a pipeline |
| possible attributes [possible values]: | name  [   ]<br>type  [   ] |

**possible included terms:**

fire hydrant          pumping station
hydrant          stand pipe

**see also:**

| | |
|---|---|
| feature class: | **clearing** |
| theme: | **vegetation** |
| definition: | an open area within a vegetated area |
| possible attributes  [possible values]: | name  [  ]<br>type  [  ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| break | cleared line | fire break | seismic line |
| burnt-over area | cut line | logged area | |

**see also:**


| | |
|---|---|
| feature class: | **cropland** |
| theme: | **vegetation** |
| definition: | land which has been ploughed or otherwise cultivated |
| possible attributes  [possible values]: | name  [  ]<br>type  [  ] |

**possible included terms:**

| | | |
|---|---|---|
| farm | market garden | paddy |

**see also:**

| | | |
|---|---|---|
| orchard | plantation | vineyard |


| | |
|---|---|
| feature class: | **forest** |
| theme: | **vegetation** |
| definition: | land having a natural cover of trees, tall shrubs or both |
| possible attributes  [possible values]: | name  [  ]<br>type  [  ]<br>density  [dense, medium, scattered   etc  ] |

**possible included terms:**

| | | | |
|---|---|---|---|
| brigalow | grove | mallee | rainforest |
| copse | jungle | mulga | woodland |

**see also:**

scrub

| feature class: | **grassland** |
|---|---|
| theme: | **vegetation** |
| definition: | an uncultivated area of grass or grass like vegetation |
| possible attributes [possible values]: | name [ ] <br> type [ ] |

**possible included terms:**

meadow                    pasture

**see also:**

| feature class: | **mangrove** |
|---|---|
| theme: | **vegetation** |
| definition: | a nearly level tract of land between the low and high water lines vegetated with mangroves |
| possible attributes [possible values]: | name [ ] <br> type [ ] |

**possible included terms:**

**see also:**

| feature class: | **orchard** |
|---|---|
| theme: | **vegetation** |
| definition: | an area of land used for growing fruit trees – usually an intensive form of agriculture |
| possible attributes [possible values]: | name [ ] <br> type [ ] |

**possible included terms:**

**see also:**

| feature class: | **plantation** |
|---|---|
| theme: | **vegetation** |
| definition: | an area of land used for the orderly growing of trees for wood production and/or for transplanting or for sale |
| possible attributes [possible values]: | name  [   ]<br>type  [coniferous, non-coniferous, native   etc   ] |

**possible included terms:**

arboretum                pine forest                tree farm

**see also:**

| feature class: | **scrub** |
|---|---|
| theme: | **vegetation** |
| definition: | an area of low trees or shrubs |
| possible attributes [possible values]: | name  [   ]<br>density  [dense, medium, scattered   etc   ] |

**possible included terms:**

brush                bush                heath

**see also:**

| feature class: | **swamp** |
|---|---|
| theme: | **vegetation** |
| definition: | land which is so saturated that it is not suitable for agriculture and presents a barrier to free passage |
| possible attributes [possible values]: | name  [   ]<br>type  [non perennial, perennial, salt, tidal, back, floating   etc   ] |

**possible included terms:**

blanket bog          marsh          morass          peat bog
marine swamp        mire          nipa wetland

**see also:**

| | |
|---|---|
| feature class: | **tree** |
| theme: | **vegetation** |
| definition: | an isolated large tree |
| possible attributes  [possible values]: | name  [  ]<br>type  [  ] |

**possible included terms:**
lone tree

**see also:**

| | |
|---|---|
| feature class: | **vineyard** |
| theme: | **vegetation** |
| definition: | land used for growing grapes and other vine fruits |
| possible attributes  [possible values]: | name  [  ]<br>type  [  ] |

**possible included terms:**

**see also:**

| | |
|---|---|
| feature class: | **windbreak** |
| theme: | **vegetation** |
| definition: | a narrow strip of natural or planted trees which interrupts the force of the wind |
| possible attributes  [possible values]: | name  [  ]<br>type  [  ] |

**possible included terms:**
hedge                                hedgerow