| Last Sav         | ed  | 18/06/2004 09:24:07  | By   | Keith Holmes  | \\Mhnts9\Programmes  | slism\im\ISO19115\DG   | SM\BGSDGSMProfile.                                   | <u>x1</u>  |  |  |   |   |                    |  |  |   |   |                    |  |   |                               |            |                            |
|------------------|---|--|--|---|--|--|--|--|--|--|---|---|--------------------|--|--|---|---|--------------------|--|---|-------------------------------|------------|----------------------------|
| L<br>i<br>n<br>e | Note: B<br>Added E<br>Error in<br>Change<br>DGSM I<br>Quick as<br>Change<br>Included<br>Added in<br>Added in<br>Change<br>Correcte<br>Added in<br>Change<br>Change<br>Added in<br>Technic<br>Incorport<br>Added in<br>Technic | IdS-geolDS profile on this<br>DGSM Data Discovery Profile<br>of cardinality of Dataset Lang<br>of cardinality of Dataset Lang<br>discoverse of the Cardinality of Dataset Lang<br>discoverse (only 1<br>dataset Cardinal Cardinality of Cardinality<br>ed Vertical Extent (#128-132<br>dataset) and the Cardinality of Cardinality<br>ed (added #116.4) KAH 3 M<br>In MixNa CC KAH 2 Apr 200<br>In DGSM GLOS ATR 2 Apr 2<br>do comments after discussion<br>of comments after discussion<br>of Cardinality for the Cardinality for<br>and Changen (#104) for the Cardinality for the Cardinality of the<br>and Changen (#104) for the Cardinality for the Cardinality for<br>and the Cardinality for the Cardinality for the Cardinality for<br>the Cardinality for the Cardinality for the Cardinality for the Cardinality for<br>the Cardinality for the Cardinality for the Cardinality for the Cardinality for<br>the Cardinality for the Cardinality for | sheet is out-of-di<br>le - KAH 21 Nov 20<br>guage & Obligation<br>ed KAH 27 Nov 20<br>set was a set was a set was<br>reference system -<br>set was a set was a set was<br>set was a set was a set was<br>set was a set was a set was<br>a browse graphic (<br>ar 2004<br>do to 3.1 and docum<br>204<br>204<br>205<br>bitses refer to JLL's<br>pick KH 21 Apr 200<br>sheet fields in GLC<br>wite.8) KAH 18 Ju | e<br>3 Vertical Reference System and of<br>3 an RP0161 Intelace<br>an RP0161 Intelace<br>1 and RP0161 Inte | wher corrections! - KAH 21<br>ed) KAH 31 Dec 2003<br>25-63); amended keyword<br>verything to do with lineag<br>- put in last saved date Ki<br>ng for "JLL 8 Apr 2004") K<br>ment of 7 Apr 2004 KAH 11  | 2<br>1 Nov 2003<br>4s (#107), association Tyr<br>er #116.3-116.45 is char<br>er #116.3-116.45 is char<br>AH1 6 Apr 2004<br>C4H 14 Apr 2004<br>6 Apr 2004 | pe (#116), constraints (#<br>gged, added data quaity | 103-106) KAH 25 Feb 2004<br>in (#116.9-116.98), added  | Dark Yellow background field<br>Light yellow background field<br>Red text fields are existing DC | s here should be implemented<br>need not be implemented<br>SSM Data Discovery Metadata fields  | 1   |   |                    | Dark Yellow background field<br>Light yellow background field<br>Biue text fields are existing D<br>Green fields indicate Inferenc | Is here should be implemented<br>is here should be pomented<br>GSM Model Tocowy Mesidata fields<br>to Metadata info  |   |   |                    | Grey Background are Nidden<br>Yellow Background are visible    | Tedds<br>Redds  |                               |            |                            |
| 1                |   | · ·  |  |   | ISO 19115:2003<br>Obligation /   |  |  |  |  | DGSM Data Discovery Profile  | Obligation /                                    | Maximum                                 | Data Discovery     | -  | DGSM Model Discovery Profile   | Obligation /                                    | Maximum                                 | Model              |  | MidVal QC (Version 3.1)   | Obligation /                  | Maximum    | DGSM<br>QC Workflow        |
| 2                | No.   |  | Short Name   | Definition  | Condition  | Maximum Occurrence   | Data Type  | Domain   | Name / Role Name   | description see IR/01/61)  | Condition                                       | Occurrence                              | Workflow<br>Number | Name / Role Name   | description see IR/01/61)  | Condition                                       | Occurrence                              | Workflow<br>Number | Name / Role Name   | Comments  | Condition                     | Occurrence | Number Name / Role Name    |
| 4                | 360   | Dataset Title<br>title   | resTitle   | name by which the cited resource i  | Mandatory<br>Mandatory   | ?1<br>1  | CharacterString                                      | Free Text  | Dataset Title<br>Title (RESTITLE)  |  | Mandatory<br>Mandatory                          | 1                                       | 8                  | Dataset Title<br>Title (RESTITLE)  |  | Mandatory<br>Mandatory                          | 1                                       | 9                  | Dataset Title<br>Title   |   | Mandatory<br>Mandatory        | 1          | 9 GLOS: Model Title        |
| 6                |   | Dataset Reference Date   |  | known   | Mandatory  | ?Many  |  |  | Dataset Reference Date   |  | Mandatory                                       | 1                                       |                    | Dataset Reference Date   |  | Mandatory                                       | 1                                       |                    | Dataset Reference Date   | There are 3 dates in the MidVal QC -<br>'preparation' = 'creation', 'checking' =<br>new value in DIC_DATETYPCD,   | Mandatory (for creation)      | 1          | GSP: Sunace Name           |
| 7                | 394   | date   | refDate  | reference date for the cited resource   | ce Mandatory   | N  | Class  | Date (B.4.2)   | Date of Extraction (1/4)   |  | Mandatory                                       | 1                                       | 13                 | Date of Creation (1/4)   |  | Mandatory                                       | 1                                       | 12                 | Date of Preparation + Date of                                  | 'approval' = 'publication'  | Mandatory                     | 1          | 12                         |
|                  |   |  |  |   |  |  |  |  | Date of Extraction (2/4)   | Constrained by a dictionary<br>(DIC_ADD_DATEPRCN) for  |   |   |                    | Date of Creation (2/4)   | Constrained by a dictionary<br>(DIC_ADD_DATEPRCN) for  |   |   |                    | Checking + Date of Approva                                     | Default = 'day'. Constrained by   |                               |            |                            |
| 0                |   |  |  |   |  |  |  |  | (ADD_REFDATEPRECISION  | etc.)  | Mandatory                                       | '                                       | 13                 | (ADD_REFDATEPRECISION  | etc.)  | Mandatory                                       | 1                                       | 12                 | Precision or Date  | 'hour', 'day', 'month', 'year'  | Mandatory                     |            | 12                         |
| 9                |   |  |  |   |  |  |  |  | Date of Extraction (3/4)<br>(ADD_TM_RELATIVEPOSIT<br>ON)   | Constrained by a dictionary<br>(DIC_ADD_TM_RELATIVEPOSITIO<br>N) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should<br>be 'Enuals'.  | Mandatory                                       | 1                                       | 13                 | Date of Creation (3/4)<br>(ADD_TM_RELATIVEPOSIT<br>ON)   | Constrained by a dictionary<br>(DIC_ADD_TM_RELATIVEPOSITIO<br>N) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should<br>he 'Enuals'   | Mandatory                                       | 1                                       | 12                 | Date Relation  | Default = '='. Constrained by dictionary consisting of '>', '<', '='  | Mandatory                     | 1          | 12                         |
| 10               | 395   | dateType   | refDateType  | event used for reference date   | Mandatory  | N  | Class  | Cl_DateTypeCode<br>< <codelisb> (B.5.2)</codelisb>   | Date of Extraction (4/4)<br>(REFDATETYPE)  | Constrained by the ISO19115:2003<br>(B.5.2) codelist (DIC_DATETYPCD).<br>The 'Date of Extraction' is the<br>equivalent of 'Creation' - so only one<br>value is allowed here  | Mandatory                                       | 1                                       | 13                 | Date of Creation (4/4)<br>(REFDATETYPE)  | Constrained by the ISO19115:2003<br>(B.5.2) codelist (DIC_DATETYPCD)   | Mandatory                                       | 1                                       | 12                 | Date Type  | Default values are 'creation, 'check',<br>publication'. Constrained by the ISO<br>19115:2003 (B.5.2) codelist<br>(DIC_DATETYPCD) but codelist<br>enhanced to include 'check'  | Mandatory                     | 1          | 12                         |
| 11               |   | Dataset Responsible Party  | y  |   | Optional   | ?Many  |  |  | Dataset Responsible Party  | The dataset responsible party is the<br>project<br>Maximum occurrence should be<br>"Many" but only one occurrence per<br>role JLL 8 Apr 2004   | Mandatory                                       | 1 (but Many<br>may be a<br>requirement) |                    | Dataset Responsible Party  | See also External Model Access that<br>follows an identical structure. In the<br>implementation Project is included<br>as an optional field - it can however<br>be dealt with in the same was as<br>other Responsible Parties)<br>Maximum occurrence should be<br>"Many" but only one occurrence per<br>role JLL 8 Ayr 2004  | Mandatory                                       | 1 (but Many<br>may be a<br>requirement) |                    | Dataset Responsible Party                                      | There are 3 roles in the MidVal QC -<br>'preparer = 'originator', 'checker =<br>new value in DC_ROLECD,<br>'approver' = 'pointOfContact'  | Mandatory (for<br>originator) | 3          | GSF: Contact               |
| 12               | 375   | individualName   | rpindName  | name of the responsible person-<br>sumame, given name, title  | C / organisationName<br>and positionName not   | 1  | CharacterString                                      | Free text  | Comment on Project   | The 'Comment on Project' should<br>have included the name of the<br>Project Manager. Other comments  | Mandatory                                       | 1                                       | 8                  | Originator (1/3)   |  | C / Organisation<br>and Position not            | 1                                       | 9 & 15             | Team Member + Checker +  |   | Mandatory                     | 1          | 9 & 12 & 15                |
|                  |   |  |  | separated by a delimiter  | documented?<br>C / individualName  |  |  |  | (RPINDNAME)  | on the project are unlikely to be<br>needed.   |   |   |                    | Originator (2/3)   |  | documented?<br>C / Name and                     |   |                    | Approver   |   |                               |            |                            |
| 13               | 376   | organisationName   | rpOrgName  | name of the responsible organization  | ion and positionName not<br>documented?<br>C / individualName  | 1  | CharacterString                                      | Free text  | (RPORGNAME)  | system   | Optional  | 1                                       | 8                  | (RPORGNAME)  |  | Position not<br>documented?                     | 1                                       | 9 & 15             | Organisation   | Default = 'British Geological Survey'   | Optional                      | 1          | 9 & 12 & 15                |
| 14               | 377   | positionName   | rpPosName  | role or position of the responsible   | and<br>organisationName not<br>documented?   | 1  | CharacterString                                      | Free text  | Project (RPPOSNAME)  | This should be linked to the Projects<br>database  | Mandatory                                       | 1                                       | 8                  | Originator (3/3)<br>(RPPOSNAME)  |  | Organisation not<br>documented?                 | 1                                       | 9 & 15             | Position + Project   | 'Checker' (checker). Hidden for<br>Team Member and Checker  | Optional                      | 1          | 9&12&15                    |
| 15               | 408   | voice  | voiceNum   | individuals can speak to the<br>responsible organization or<br>individual   | Optional   | N  | CharacterString                                      | Free text  | (VOICENUM)   |  | Optional  | Many                                    | 8                  | (VOICENUM)   |  | Optional  | Many                                    | 9 & 15             | Telephone No   | Default = '+44 131 667 1000'  | Optional                      | 1          | 9 & 12 & 15                |
| 16               | 409   | facsimile  | faxNum   | telephone number of a facsimile<br>machine for the responsible<br>organization or individual  | Optional   | N  | CharacterString                                      | Free text  | (FAXNUM)   |  | Optional  | Many                                    | 8                  | (FAXNUM)   |  | Optional  | Many                                    | 9 & 15             | FAX No   | Default = '+44 131 667 2785'  | Optional                      | 1          | 9 & 12 & 15                |
| 17               | 381   | deliveryPoint  | delPoint   | address line for the location (as described in ISO 11180, Annex A)  | Optional   | N  | CharacterString                                      | Free text  | (DELPOINT)   |  | Mandatory                                       | 1                                       | 8                  | (DELPOINT)   |  | Mandatory                                       | 1                                       | 9 & 15             | Address  | Default = 'Murchison House, West<br>Mains Road'   | Optional                      | 1          | 9 & 12 & 15                |
| 18               | 382   | city   | city   | city of the location  | Optional   | 1  | CharacterString                                      | Free text  | (CITY)   | These items were not included in the<br>DGSM Data Discovery Metadata.<br>As long as the mandatory fields (at   | Mandatory                                       | 1                                       | 8                  | (CITY)   | These items were not included in the<br>DGSM Model Discovery Metadata.<br>As long as the mandatory fields (at  | Mandatory                                       | 1                                       | 9 & 15             | City   | Default = 'Edinburgh'   | Optional                      | 1          | 9 & 12 & 15                |
| 19<br>20         | 383<br>384  | administrativeArea<br>postalCode   | adminArea<br>postCode  | state, province of the location<br>ZIP or other postal code   | Optional<br>Optional   | 1  | CharacterString<br>CharacterString                   | Free text<br>Free text   | (ADMINAREA)<br>(POSTCODE)  | least) are retrievable from a<br>corporate system, there is no need<br>to include them   | Optional<br>Optional                            | 1                                       | 8                  | (ADMINAREA)<br>(POSTCODE)  | least) are retrievable from a<br>corporate system, there is no need<br>to include them   | Optional<br>Optional                            | 1                                       | 9 & 15<br>9 & 15   | Admin Area<br>Postcode   | Default = 'EH9 3LA'   | Optional<br>Optional          | 1          | 9 & 12 & 15<br>9 & 12 & 15 |
| 21               | 385   | country  | country  | country of the physical address<br>address of the electronic mailbox o  | Optional   | 1  | CharacterString                                      | used   | (COUNTRY)  | -  | Mandatory                                       | 1                                       | 8                  | (COUNTRY)  |  | Mandatory                                       | 1                                       | 9 & 15             | Country  | Default = 'United Kingdom'  | Optional                      | 1          | 9 & 12 & 15                |
| 22               | 386   | electronicMailAddress  | eMailAdd   | the responsible organization or<br>individual<br>location (address) for on-line access  | Optional   | 1  | CharacterString                                      | Free text  | (EMAILADD)   | -  | Optional  | Many                                    | 8                  | (EMAILADD)   |  | Optional  | Many                                    | 9 & 15             | Email  |   | Mandatory                     | 1          | 9 & 12 & 15                |
| 23               | 397   | linkage  | linkage  | using a Uniform Resource Locator<br>address or similar addressing<br>scheme such as<br>http://www.statkart.no/isotc211  | Mandatory  | 1  | Class  | URL (IETF RFC1738 IETF<br>RFC 2056)  | (LINKAGE)  | 0  | Optional  | 1                                       | 8                  | (LINKAGE)  | Constrained by the ISO 19115:2003  | Optional  | 1                                       | 9 & 15             | Linkage  | Default = 'http://www.bgs.ac.uk'  | Optional                      | 1          | 9 & 12 & 15                |
| 24               | 379   | role   | role   | function performed by the<br>responsible party  | Mandatory  | 1  | Class  | Cl_RoleCode < <codelist>&gt;<br/>(B.5.5)</codelist>  | (ROLE)   | (8.5.5) codelist (DIC_ROLECD) but<br>codelist could have added to it<br>'Project' (and the other entries<br>removed  | Mandatory                                       | 1                                       | 8                  | (ROLE)   | (B.5.5) codelist (DIC_ROLECD) but<br>codelist reduced (and possibly<br>added to) - but it will only contain a<br>few entries. Originator = originator,<br>Supplier = resourceProvider  | Mandatory                                       | 1                                       | 9 & 15             | Role   | 'checker', 'pointOlContact'.<br>Constrained by the ISO 19115:2003<br>(B.5.5) codelist (DIC_ROLECD) but<br>codelist enhanced to include<br>'checker'   | Optional                      | 1          | 9 & 12 & 15                |
| 25               | d   | Geographic location of the<br>stataset (by four coordinate<br>or by geographic identifier  | e<br>155<br>1)   |   | Conditional - either<br>the<br>EX_GeographicBou<br>ndingBox orthoritoscorription<br>extents'a<br>geographicDesc<br>ription subclass of<br>extents'a<br>geographicDesc<br>ription subclass of<br>extents'a<br>geographicDesc<br>included if the<br>dataset is<br>spatially referenced.<br>If necessary both<br>may be used. | 7Many  |  |  | Geographic location of the<br>dataset (by four<br>coordinates)                                   | These have to be lationg. Note that<br>these are only approximate - so<br>lationg will ob-there's no need to<br>include a coordinate system (System<br>of Spatial Referencing by Co-<br>ordinates) for bounding coordinates<br>Maximum coordinates<br>Maximum coordinates<br>JL 8 Apr 2004 | Mandatory                                       | 1 (but Many<br>may be a<br>requirement) |                    | Geographic location of the<br>dataset (by four<br>coordinates)   | These have to be lationg. Note that<br>these are only approximate - so<br>lationg will do - there's no need to<br>londude a coordinate system (System<br>of Spatial Referencing to Co-<br>lor (Spatial Reference) (System<br>of Spatial Reference) (System<br>of Spatial Reference) (System<br>of Spatial Reference) (System<br>System) (System) | Optional  | 1 (but Many<br>may be a<br>requirement) |                    | Geographic location of the<br>dataset (by four<br>coordinates) | These have to be lationg according<br>to 150 but for practical purpose,<br>allowed they can be converted to<br>Lationg teler accuracy (with<br>sensible bounds) of this conversion<br>is unimportant for these fields | Mandatory                     | Many       |                            |
| 26               | 340   | extentTypeCode   | exTypeCode   | polygon encompasses an area<br>covered by the data or an area<br>where data is not present  | Optional   | 1  | Boolean  | 0 - exclusion<br>1 - inclusion   | (EXTYPECODE)   | 0 – exclusion<br>1 – inclusion   | Mandatory                                       | 1                                       | 8 & 13             | (EXTYPECODE)   | 0 – exclusion<br>1 – inclusion   | Mandatory                                       | 1                                       | 9 & 12             | Extent Type  | Default = '1'.<br>0 - exclusion<br>1 - inclusion  | Mandatory                     | 1          | 9 & 12                     |
| 27               | 344   | westBoundLongitude   | westBL   | western-most coordinate of the limi<br>of the dataset extent, expressed in<br>longitude in decimal degrees<br>(positive east)   | it Mandatory   | 1  |  | Angle (B.4.3)<br>-180,0 <= West Bounding<br>Longitude Value <= 180,0   | West Bounding Co-ordinate<br>(WESTBL)  | -180,0 <= West Bounding<br>Coordinate <= 180,0   | Mandatory                                       | 1                                       | 8 & 13             | West Bounding Co-ordinate<br>(WESTBL)  | -180,0 <= West Bounding<br>Coordinate <= 180,0   | Mandatory                                       | 1                                       | 9 & 12             | Western Extent   |   | Mandatory                     | 1          | 9 & 12                     |
| 28               | 345   | eastBoundLongitude   | eastBL   | eastern-most coordinate of the limit<br>of the dataset extent, expressed in<br>longitude in decimal degrees<br>(positive east)  | it<br>Mandatory  | 1  | Class  | Angle (B.4.3)<br>-180,0 <= East Bounding<br>Longitude Value <= 180,0   | East Bounding Co-ordinate<br>(EASTBL)  | -180,0 <= East Bounding Coordinate<br><= 180,0   | Mandatory                                       | 1                                       | 8 & 13             | East Bounding Co-ordinate<br>(EASTBL)  | -180,0 <= East Bounding Coordinate<br><= 180,0   | Mandatory                                       | 1                                       | 9 & 12             | Eastern Extent   |   | Mandatory                     | 1          | 9 & 12                     |
| 29               | 346   | southBoundLatitude   | southBL  | southern-most coordinate of the lim<br>of the dataset extent, expressed in<br>latitude in decimal degrees (positive<br>north)   | nit<br>e Mandatory   | 1  | Class  | Angle (B.4.3)<br>-90,0 <= South Bounding<br>Latitude Value <= 90,0; South<br>Bounding Latitude Value <=<br>North bounding Latitude Value | South Bounding Co-ordinate<br>(SOUTHBL)  | -90,0 <= South Bounding Coordinate<br><= 90,0;<br>South Bounding Coordinate <=<br>North bounding Coordinate  | Mandatory                                       | 1                                       | 8&13               | South Bounding Co-ordinate<br>(SOUTHBL)  | -90,0 <= South Bounding Coordinate<br>= <= 90,0;<br>South Bounding Coordinate <=<br>North bounding Coordinate  | Mandatory                                       | 1                                       | 9 & 12             | Southern Extent  |   | Mandatory                     | 1          | 9&12                       |
| 30               | 347   | northBoundLatitude   | northBL  | northern-most, coordinate of the lim<br>of the dataset extent expressed in<br>latitude in decimal degrees (positive<br>north)   | nit<br>re Mandatory  | 1  | Class  | Angle (B.4.3)<br>-90,0 <= North Bounding<br>Latitude Value <= 90,0; North<br>Bounding Latitude Value >=<br>South Bounding Latitude Value | North Bounding Co-ordinate<br>(NORTHBL)  | -90,0 <= North Bounding Coordinate<br><= 90,0;<br>North Bounding Coordinate >=<br>South Bounding Coordinate  | Mandatory                                       | 1                                       | 8&13               | North Bounding Co-ordinate<br>(NORTHBL)  | -90,0 <= North Bounding Coordinate<br><= 90,0;<br>North Bounding Coordinate >=<br>South Bounding Coordinate  | Mandatory                                       | 1                                       | 9 & 12             | Northern Extent  |   | Mandatory                     | 1          | 9 & 12                     |
| 30.1             |   |  |  |   |  |  |  |  |  |  |   |   |                    |  |  |   |   |                    | Coordinate System  | Default = 'British National Grid'.<br>Only other value allowed is   | Mandatory                     | 1          | 9&12                       |
| 31               |   |  |  |   |  |  |  |  | Geographic location of the<br>dataset (by Areal Extent)  |  | Optional (but<br>Mandatory in<br>Implementation | Many                                    |                    | Geographic location of the<br>dataset (by Areal Extent)  | •  | Optional (but<br>Mandatory in<br>Implementation | Many                                    |                    | Geographic location of the<br>dataset (by Areal Extent)        | Low Long  | Optional                      | Many       |                            |
| 32               | 340   | extentTypeCode   | exTypeCode   | indication of whether the bounding<br>polygon encompasses an area<br>covered by the data or an area   | Optional   | 1  | Boolean  | 0 – exclusion  | (EXTYPECODE)   | 0 – exclusion<br>1 – inclusion   | Mandatory                                       | 1                                       | 8&13               | (EXTYPECODE)   | 0 - exclusion<br>1 - inclusion   | )<br>Mandatory                                  | 1                                       | 9 & 12             | Extent Type  | Default = '1'.<br>0 - exclusion   | Mandatory                     | 1          | 9 & 12                     |
| 33               | 206   | authority  | identAuth  | where data is not present<br>person or party responsible for<br>maintenance of the namespace  | Optional   | 1  | Class  | Cl_Citation < <datatype>&gt; (B.3.2)</datatype>  | TGN Name   | Not needed until a TGN is available -<br>then use the CITATION table<br>(RESTITLE and<br>ADD_CITATION_ID)  | Mandatory (whe<br>TGN available)                | n 1                                     | 8 & 13             | TGN Name   | Not needed until a TGN is available<br>then use the CITATION table<br>(RESTITLE and<br>ADD_CITATION_ID)  | Mandatory (when<br>TGN available)               | 1                                       | 9 & 12             | TGN Name   | 1 - inclusion<br>Default = 'notEntered'   | Mandatory                     | 1          | 9 & 12                     |
|                  |   |  |  |   |  |  |  |  |  | Note: version control will need<br>implementing on the TGN.  | Mandatas  |   |                    |  | Note: version control will need<br>implementing on the TGN.  | Mandatan  |   |                    |  |   |                               |            |                            |
| 33.1             | 394   | date   | refDate  | reference date for the cited resource   | ce Mandatory   | N  | Class  | Date (B.4.2)   | (REFDATE)  | Reference Dates for the TGN<br>Constrained by a dictionary   | TGN available)                                  | Many                                    |                    | (REFDATE)  | Reference Dates for the TGN<br>Constrained by a dictionary   | TGN available)                                  | Many                                    |                    |  |   |                               |            |                            |
| 33.2             |   |  |  |   |  |  |  |  | (ADD_REFDATEPRECISION  | (DIC_ADD_DATEPRCN) for<br>) relational implementation. Dictionary<br>consists of 'Century', 'Year', 'Minute',  | Mandatory (whe<br>TGN available)                | n 1                                     |                    | (ADD_REFDATEPRECISION  | (DIC_ADD_DATEPRCN) for<br>relational implementation. Dictionar<br>consists of 'Century', 'Year', 'Minute',   | Mandatory (when<br>TGN available)               | 1                                       |                    |  |   |                               |            |                            |
|                  |   |  |  |   |  |  |  |  |  | etc.)<br>Constrained by a dictionary<br>(DIC_ADD_TM_RELATIVEPOSITIO  |   |   |                    |  | etc.)<br>Constrained by a dictionary<br>(DIC_ADD_TM_RELATIVEPOSITIO  |   |   |                    |  |   |                               |            |                            |
| 33.3             |   |  |  |   |  |  |  |  | (ADD_TM_RELATIVEPOSIT<br>ON)   | I N) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should<br>be 'Enuals'.  | Mandatory (whe<br>TGN available)                | n 1                                     |                    | (ADD_TM_RELATIVEPOSIT<br>ON)   | TI N) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should<br>be 'Enuals'.   | Mandatory (when<br>TGN available)               | 1                                       |                    |  |   |                               |            |                            |

| M Model Ter | chnical (GLOS) Profile (ablalan's several | sheet fields)             |                       |                            |
|-------------|---|---------------------------|-----------------------|----------------------------|
| ie          | Comments                                  | Obligation /<br>Condition | Maximum<br>Occurrence | GLOS<br>Workflow<br>Number |
|             |   |                           |                       |                            |
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|             | The role is pointOfContact                |                           |                       |                            |
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| 1    |                                  |                       |   | ISO 19115:2003   |                    |                 |  |  | DGSM Data Discovery Profile   |   |                                |                            |   | DGSM Model Discovery Profile  |   |                                |                                |  | MidVal QC (Version 3.1)  |              |         |             | DGSM N                     |
|------|----------------------------------|-----------------------|---|--|--------------------|-----------------|--|--|---|---|--------------------------------|----------------------------|---|---|---|--------------------------------|--------------------------------|--|--|--------------|---------|-------------|----------------------------|
| 2    | No.                              | Short Name            | Definition  | Obligation /   | Maximum Occurrence | Data Type       | Domain   | Name / Role Name   | Comments (for detailed  | Obligation /  | Maximum                        | Data Discovery<br>Workflow | Name / Role Name  | Comments (for detailed  | Obligation /  | Maximum                        | Model<br>Discovery<br>Workflow | Name / Role Name                                       | Comments   | Obligation / | Maximum | QC Workflow | Name / Role Name           |
|      |                                  |                       |   |  |                    |                 |  |  | Constrained by the ISO19115-2003  | Mandaton: (whe  |                                | Number                     |   | Constrained by the ISO19115-2003  | Mandatony (wher   |                                | Number                         |  |  |              |         |             |                            |
| 33.4 | 395 dateType                     | refDateType           | event used for reference date   | Mandatory  | N                  | Class           | <codelist>&gt; (B.5.2)</codelist>                                | (REFDATETYPE)  | (B.5.2) codelist (DIC_DATETYPCD)<br>Areal Extent is best dealt with in a<br>TGN structure, but pro-tem a                  | TGN available)  | 1                              |                            | (REFDATETYPE)   | (B.5.2) codelist (DIC_DATETYPCD)<br>Areal Extent is best dealt with in a<br>TGN structure, but pro-tem a                  | TGN available)  | 1                              |                                |  |  |              |         |             |                            |
| 34   | 207 code                         | identCode             | alphanumeric value identifying an<br>instance in the namespace  | Mandatory  | 1                  | CharacterString | Free text  | Areal Extent (IDENTCODE)   | dictionary of allowable terms should<br>be created. Areal Extent Type<br>should be dealt with within the TGN<br>structure | Mandatory   | 1                              | 8 & 13                     | Areal Extent (IDENTCODE)  | dictionary of allowable terms should<br>be created. Areal Extent Type<br>should be dealt with within the TGN<br>structure | Mandatory   | 1                              | 9 & 12                         | Areal Extent   | Restricted to list used in DGSM<br>Metadata on 4 Feb 2004                | Mandatory    | 1       | 9 & 12      |                            |
| 35   | Dataset language                 |                       |   | Mandatory  | ?Many              |                 |  | Dataset language   | This section isn't used in DGSM<br>Data Discovery Metadata  | Mandatory   | 1                              |                            | Dataset language  |   | Mandatory   | 1                              |                                | Dataset language                                       |  | Mandatory    | 1       |             |                            |
| 36   | 39 language                      | dataLang              | language(s) used within the datase  | t Mandatory  | N                  | CharacterString | ISO 639-2, other parts may be<br>used                            | (DATALANG)   | Default (and possibly only) value:<br>English. Constrained by a very cut<br>down version of these in ISO 520.2            | Mandatory   | 1                              | 8                          | (DATALANG)  | Default (and possibly only) value:<br>English. Constrained by a very cut<br>down warping of these in ISO 820.2            | Mandatory   | 1                              | 9                              | Dataset Language                                       | Default = 'English'  | Mandatory    | 1       | 9           |                            |
|      |                                  |                       |   | The characterSet<br>element of   |                    |                 |  |  | down version or mose in 130 638-2   |   |                                |                            |   | down version of those in 130 035-2  |   |                                |                                |  |  |              |         |             |                            |
| 37   | Dataset character s              | et                    |   | MD_DateIdentificati<br>on is conditional; it<br>is documented if<br>ISO/IEC 10646-1 is | i<br>t             |                 |  | Dataset character set  | This section isn't used in DGSM<br>Data Discovery Metadata  | Mandatory   | Many                           |                            | Dataset character set   | This section isn't used in DGSM<br>Model Discovery Metadata   | Mandatory   | Many                           |                                | Dataset character set                                  |  | Mandatory    | Many    |             |                            |
|      |                                  |                       |   | not used.  |                    |                 |  |  | Default Value: Not Available  |   |                                |                            |   | Default Value: Not Available  |   |                                |                                |  |  |              |         |             |                            |
| 38   | 40 characterSet                  | dataChar              | full name of the character coding<br>standard used for the dataset  | C/ISO/IEC 10646-1<br>not used?   | N                  | Class           | MD_CharacterSetCode<br>< <codelist>&gt; (B.5.10)</codelist>      | (DATACHAR)   | Constrained by the ISO 19115:2003<br>(B.5.10) codelist<br>(DIC_CHARSETCD) but codelist                                    | Mandatory   | 1                              | 8                          | (DATACHAR)  | Constrained by the ISO 19115:2003<br>(B.5.10) codelist<br>(DIC_CHARSETCD) but codelist                                    | Mandatory   | 1                              | 9                              | Dataset Character Set                                  | Default = 'notEntered'   | Mandatory    | 1       | 9           |                            |
|      |                                  |                       |   |  |                    |                 |  |  | enhanced to include 'Not Applicable'<br>(for non-digital sets), 'Not Available'   |   |                                |                            |   | enhanced to include 'Not Applicable'<br>(for non-digital sets), 'Not Available'   |   |                                |                                |  |  |              |         |             |                            |
| 39   | Dataset topic catego             | ку                    |   | Mandatory  |                    |                 |  | Dataset topic category   | This section isn't used in DGSM<br>Data Discovery Metadata  | Mandatory   | Many                           |                            | Dataset topic category  | This section isn't used in DGSM<br>Model Discovery Metadata   | Mandatory   | Many                           |                                | Dataset topic category                                 |  | Mandatory    | Many    |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  | (B.5.27) enumeration<br>(DIC_TOPICCATCD) but  |   |                                |                            |   | (B.5.27) enumeration<br>(DIC_TOPICCATCD) but  |   |                                |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  | enumeration (!) enhanced to include<br>subdivisions of  |   |                                |                            |   | enumeration (!) enhanced to include<br>subdivisions of  |   |                                |                                |  |  |              |         |             |                            |
|      |                                  |                       |   | C / if hierarchyLevel  |                    | _               | MD_TopicCategoryCode   |  | 'geoscientificInformation'.<br>Enhancement for internal use only  |   |                                |                            |   | geoscientificInformation'.<br>Enhancement for internal use only   |   |                                |                                |  | Default = 'geoscientificInformation'<br>Only value available should be   |              |         |             |                            |
| 40   | 41 topicCategory                 | tpCat                 | main theme(s) of the dataset  | equals "dataset"?  | N                  | Class           | < <enumeration>&gt; (B.5.27)</enumeration>                       | (IPCAI)  | extended and this type of<br>enhancement is better dealt with by  | Mandatory   | '                              | 8                          | (IPCAI)   | extended and this type of<br>enhancement is better dealt with hy  | Mandatory   | 1                              | ,                              | Dataset Topic Category                                 | 'geoscientificInformation' JLL 8 Apr<br>2004                             | Mandalory    | 1       | ,           |                            |
|      |                                  |                       |   |  |                    |                 |  |  | keywords and a thesaurus<br>Only value available should be  |   |                                |                            |   | keywords and a thesaurus<br>Only value available should be  |   |                                |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  | 'geoscientificInformation' - finer<br>subdivisions should be taken care of<br>by keywords II J. 8 Apr 2004                |   |                                |                            |   | 'geoscientificInformation' - finer<br>subdivisions should be taken care of<br>by kenwords III. 8 Apr 2004                 |   |                                |                                |  |  |              |         |             |                            |
|      | Spatial resolution of            | the                   |   | Optional (if used, either  |                    |                 |  | Spatial resolution of the  | , .,  |   |                                |                            | Spatial resolution of the   | ,   |   |                                |                                | Spatial resolution of the                              |  |              |         |             |                            |
| 41   | dataset                          |                       |   | equivalentScale or<br>distance can be  |                    |                 |  | dataset (Scale)  |   | Mandatory   | 1                              |                            | dataset (Scale)   | See also Quality Scale Validity   | Optional  | 1                              |                                | dataset (Scale)  |  | Optional     | 1       |             |                            |
| 42   | 57 denominator                   | rfDenom               | the number below the line in a vulg<br>fraction   | ar Mandatory   | 1                  | Integer         | Integer > 0  | Level of Spatial Detail (1/4)<br>(RFDENOM)                       | See also abstract   | Mandatory   | 1                              | 8                          | Level of Spatial Detail (1/4)<br>(RFDENOM)                        | See also Abstract   | Mandatory   | 1                              | 9                              | Scale  |  | Mandatory    | 1       | 9           |                            |
| 43   |                                  |                       |   |  |                    |                 |  | Spatial resolution of the<br>dataset (Distance between           | 1   | Optional  | 1                              |                            | Spatial resolution of the<br>dataset (Distance between            |   | Optional  | 1                              |                                | Spatial resolution of the<br>dataset (Distance between |  | Optional     | 1       |             |                            |
| 44   | 61 distance                      | scaleDist             | ground sample distance  | C / equivalentScale  | 1                  | Class           | Distance (B.4.3)   | Level of Spatial Detail (2/4)                                    |   | Mandatory   | 1                              | 8                          | Level of Spatial Detail (2/4)                                     |   | Mandatory   | 1                              | 9                              | Avg. distance between data                             |  | Mandatory    | 1       | 9           |                            |
|      |                                  |                       |   | not obcarriencer.  |                    |                 |  | Level of Spatial Detail (3/4)                                    | Constrained by a dictionary of units  |   |                                | -                          | Level of Spatial Detail (3/4)                                     | Constrained by a dictionary of units  |   |                                | -                              | punta  | Default = 'metres'. Other value  |              |         | -           |                            |
| 45   |                                  |                       |   |  |                    |                 |  | (ADD_UOMLENGTH)  | (DIC_ADD_UOMLENGTH)   | Mandatory   | 1                              | 8                          | (ADD_UOMLENGTH)   | (DIC_ADD_UOMLENGTH)   | Mandatory   | 1                              | 9                              | Units  | available is 'kilometres'  | Mandatory    | 1       | 9           |                            |
| 46   | Abstract describing t<br>dataset | the                   |   | Mandatory  |                    |                 |  | Abstract   |   | Mandatory   | 1                              |                            | Abstract  |   | Mandatory   | 1                              |                                | Abstract   |  | Mandatory    | 1       |             |                            |
| 47   | 25 abstract                      | idAbs                 | brief narrative summary of the  | Mandatory  | 1                  | CharacterString | Free text  | Abstract + textual informatio<br>on Level of Spatial Detail (4/- | n<br><sup>4)</sup> Detailed instructions are needed on  | Mandatory   | 1                              | 8 & 13                     | textual information on Level of<br>Spatial Detail (4/4) + Logical | Detailed instructions are needed on   | Mandatory   | 1                              | 9 & 12                         | Description (Abstract)                                 | One mandatory field + 2 (optional)                                       | Mandatory    | 1       | 9 & 12      |                            |
|      |                                  |                       | content of the resource(s)  |  |                    |                 |  | + Completeness + Logical<br>Consistency (IDABS)                  | what to include in the abstract   |   |                                |                            | Consistency + Scientific<br>Concept (IDABS)                       | what to include in the abstract   |   |                                |                                |  | continuation fields  |              |         |             |                            |
| 48   | Easy - we need an abstract (but  | t only one) (KAH 1 Ju | 1 2003)   | Optional (if used,   |                    |                 |  |  |   |   |                                |                            |   |   |   |                                |                                |  | There is a hearing for this in the                                       |              |         |             |                            |
| 49   | Distribution format              |                       |   | MD_Format.name<br>and  |                    |                 |  | Distribution format  | This section isn't used in DGSM<br>Data Discovery Metadata  | Optional  | Many                           |                            | Distribution format   |   | Mandatory   | Many                           |                                | Distribution format                                    | MidVal QC - but it's more aligned to<br>Storage Format (see #118 in this |              |         |             | Model Export               |
|      |                                  |                       |   | MD_Format.version<br>must be given)  | 1                  |                 |  |  | ~   |   |                                |                            |   |   |   |                                |                                |  | file)  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  |   |   |                                |                            |   |   |   |                                |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  |   |   |                                |                            | Delivery Format (1/2)   |   |   |                                |                                |  |  |              |         |             |                            |
| 50   | 285 name                         | formatName            | name of the data transfer format(s)   | м  | 1                  | CharacterString | Free text  | (FORMATNAME)   |   | Not Used  | 1                              |                            | (FORMATNAME)  |   | Mandatory   | 1                              | 9 & 12 &17                     |  |  |              |         |             | Export Type (EXPORT_TYPE_C |
|      |                                  |                       |   |  |                    |                 |  |  |   |   |                                |                            |   |   |   |                                |                                |  |  |              |         |             |                            |
| 51   | 286 version                      | formatVer             | version of the format (date, number   | r. M   | 1                  | CharacterString | Free text  | (FORMATVER)  |   | Not Used  | 1                              |                            | Delivery Format (2/2)   |   | Mandatory   | 1                              | 9 & 12 & 17                    |  |  |              |         |             |                            |
| 52   | Additional extent                | 90.01                 | 00.7  | Optional (both<br>vertical and   |                    |                 |  | Additional extent  |   | Ontional  | 1 (but Many                    |                            | Additional extent   |   | Ontional  | 1 (but Many                    |                                | Additional extent                                      |  | Ontional     |         |             |                            |
|      | (vertical and tempora            | al)                   |   | temporal extents<br>can given)   |                    |                 |  | (vertical)   |   | optional  | requirement)                   |                            | (vertical)  |   | optional  | requirement)                   |                                | (vertical)   |  | optional     |         |             |                            |
| 53   | 355 minimumValue                 | vertMinVal            | lowest vertical extent contained in the dataset   | Mandatory  | 1                  | Real            | Real   | Lowest Point (VERTMINVAL   | »   | Optional (but<br>required to be<br>Mandatory by<br>ISO 19115:2003 | 1                              | 8 & 13                     | Lowest Point (VERTMINVAL)   |   | Optional (but<br>required to be<br>Mandatory by<br>ISO 19115:2003 | 1                              | 9 &12                          | Lowest Point   |  | Mandatory    | 1       | 9 & 12      |                            |
|      |                                  |                       | hinhest vertical extent contained in  |  |                    |                 |  |  |   | Optional (but   |                                |                            |   |   | Optional (but   |                                |                                |  |  |              |         |             |                            |
| 54   | 356 maximumValue                 | vertMaxVal            | the dataset   | Mandatory  | 1                  | Real            | Real   | Highest Point (VERTMAXVA   | L)  | Mandatory by<br>ISO 19115:2003                                    | 1                              | 8 & 13                     | Highest Point (VERTMAXVAL   | )   | Mandatory by<br>ISO 19115:2003                                    | )                              | 9 &12                          | Highest Point  |  | Mandatory    | 1       | 9 & 12      |                            |
| 55   | 357 unitOfMeasure                | vertUoM               | vertical units used for vertical exter<br>information Examples: metres, feet<br>millimetres, hectopascals | t Mandatory  | 1                  | Class           | UomLength (B.4.3)  | Bounding Depth Units<br>(VERTUOM)                                | Constrained by a dictionary of units<br>(DIC_ADD_UOMLENGTH)   | Mandatory   | 1                              | 8&13                       | Bounding Depth Units<br>(VERTUOM)                                 | Constrained by a dictionary of units<br>(DIC_ADD_UOMLENGTH)   | Mandatory   | 1                              | 9 &12                          | Units  | Default = 'metres'. Other value<br>available is 'kilometres'             | Mandatory    | 1       | 9 & 12      |                            |
|      |                                  |                       |   |  |                    |                 |  |  | constrained by a dictionary of<br>vertical data (DIC_ADD_EPSG) -<br>possibly enhanced by BGS                              |   |                                |                            |   | constrained by a dictionary of<br>vertical data (DIC_ADD_EPSG) -<br>possibly enhanced by BGS                              |   |                                |                                |  |  |              |         |             |                            |
| 56   | 358 role name: verticalDate      | um vertDatum          | provides information about the orig<br>from which the maximum and   | in<br>Mandatory  | 1                  | Association     | SC VerticalDatum (B 4 9)   | System of Vertical   | (Note: not all entries in DIC_EPSG<br>are vertical data so additional   | Mandatory   | 1                              | 8 & 13                     | System of Vertical  | (Note: not all entries in DIC_EPSG<br>are vertical data so additional   | Mandatory   | 1                              | 9 & 12                         | Height System  | Default = 'OD Newlyn'. Other value                                       | Mandatory    | 1       | 9 & 12      |                            |
|      |                                  |                       | minimum elevation values are<br>measured  |  |                    |                 |  | Referencing (VERTDATUM)  | checks may be needed - or a sub-<br>setted dictionary)<br>(Note: investigate EPSG dictionary                              | ,   |                                |                            | Referencing (VERTDATUM)   | checks may be needed - or a sub-<br>setted dictionary)<br>(Note: investigate FPSG dictionary                              | ,   |                                |                                |  | available is 'OD Malin Head'   |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  | to see if VERTUOM is supplied within it)  |   |                                |                            |   | to see if VERTUOM is supplied within it)  |   |                                |                                |  |  |              |         |             |                            |
| 57   |                                  |                       |   |  |                    |                 |  | Additional extent<br>information for the datase                  | Note: This isn't TWT - Two way<br>travel time. This section isn't used  | Optional  | geographic<br>location, rather |                            | Additional extent<br>information for the dataset                  | Note: This isn't TWT - Two way<br>travel time. This section isn't used<br>within DGSM Model D'                            | Optional  | geographic<br>location, rather |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  | (temporal)   | Metadata  | -   | than the<br>dataset)           |                            | (temporal)  | Within DGSM Model Discovery<br>Metadata   |   | than the<br>dataset)           |                                |  |  |              |         |             |                            |
| 58   |                                  |                       |   |  |                    |                 |  | (BEGIN_REFDATE)  |   | Mandatory   | 1                              |                            | (BEGIN_REFDATE)   |   | Mandatory   | 1                              |                                |  |  |              |         |             |                            |
| 59   |                                  |                       |   |  |                    |                 |  | (BEGIN_ADD_REFDATEPR<br>CISION)                                  | E   | Mandatory   | 1                              |                            | (BEGIN_ADD_REFDATEPRE<br>CISION)                                  | E   | Mandatory   | 1                              |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  |   |   |                                |                            |   |   |   |                                |                                |  |  |              |         |             |                            |
| 60   |                                  |                       |   |  |                    |                 |  | (BEGIN_ADD_TM_RELATIV  | E   | Mandatory   | 1                              |                            | (BEGIN_ADD_TM_RELATIVE  | E   | Mandatory   | 1                              |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  | POSITION)  |   |   |                                |                            | roamonj   |   |   |                                |                                |  |  |              |         |             |                            |
| 61   |                                  |                       |   |  |                    |                 |  | (END_REFDATE)  |   | Mandatory   | 1                              |                            | (END_REFDATE)   |   | Mandatory   | 1                              |                                |  |  |              |         |             |                            |
| 62   |                                  |                       |   |  |                    |                 |  | (END_ADD_REFDATEPREC<br>SION)                                    | 3   | Mandatory   | 1                              |                            | (END_ADD_REFDATEPREC<br>SION)                                     | 8   | Mandatory   | 1                              |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  |   |   |                                |                            |   |   |   |                                |                                |  |  |              |         |             |                            |
| 63   |                                  |                       |   |  |                    |                 |  | (END_ADD_TM_RELATIVE<br>OSITION)                                 | P   | Mandatory   | 1                              |                            | (END_ADD_TM_RELATIVEF<br>OSITION)                                 | •   | Mandatory   | 1                              |                                |  |  |              |         |             |                            |
|      |                                  |                       |   | 0.11   |                    |                 |  | Occiliations of the  | This section isn't used within DGSM   | Or it is a  |                                |                            | Our field war and the   | This section isn't used within DGSM   | 0   |                                |                                |  |  |              |         |             |                            |
| 64   | Spatial representation           | туре                  |   | Optional   |                    |                 |  | spatial representation type                                      | Data Discovery Metadata   | Optional  | Many                           |                            | opatial representation type                                       | Model Discovery Metadata  | Optional  | Many                           |                                |  |  |              |         |             |                            |
| 65   | 37 spatialRepresentationT        | ype spatRpType        | method used to spatially represent  | Optional   | N                  | Class           | MD_SpatialRepresentation<br>TypeCode < <codelist>&gt;</codelist> | (SPATRPTYPE)   |   | Mandatory   | 1                              |                            | (SPATRPTYPE)  |   | Mandatory   | 1                              |                                |  |  |              |         |             |                            |
|      |                                  |                       |   |  |                    |                 | (B.5.26)   |  |   |   |                                |                            |   |   |   |                                |                                |  |  |              |         |             |                            |
| 66   | Reference system                 |                       |   | Optional   |                    |                 |  | Reference System   | This section isn't used within DGSM<br>Data Discovery Metadata (Except for<br>Vertical Reference System) - sec            | Optional  | Many                           |                            | Reference System  | See also Vertical Reference System  | Mandatory   | Many (but 1 is<br>probably the |                                | Reference System                                       |  | Mandatory    | Many    |             |                            |
|      |                                  |                       |   |  |                    |                 |  |  | later   |   |                                |                            |   | Constrained by a dictionary of  |   | requirement)                   |                                |  |  |              |         |             |                            |
| 67   | 207 code                         | identCode             | alphanumeric value identifying an<br>instance in the namespace  | Mandatory  | 1                  | CharacterString | Free text  | (REFSYSID)   |   | Mandatory   | 1                              |                            | Spatial Reference System<br>(REFSYSID)                            | (DIC_ADD_EPSG) - possibly BGS<br>will enhance the FPSG version  | Mandatory   | 1                              | 9                              | Spatial Reference System                               | Detault = 'British National Grid'.<br>Other value allowed is 'Lat/Long'  | Mandatory    | 1       | 9           |                            |
| 68   | Lineage                          |                       |   | Optional   |                    |                 |  | Lineage  |   | Mandatory   | 1                              |                            | Lineage   |   | Mandatory   | 1                              |                                | Lineage  |  | Mandatory    | 1       |             |                            |
| 69   | 83 statement                     | statement             | general explanation of the data<br>producer's knowledge about the<br>lineage of a dataset                 | (DQ_DataQuality.sco<br>pe.DQ_Scope.level =<br>"dataset" or "series"                    | 1                  | CharacterString | Free text  | Lineage (part) (STATEMENT  | Generalised text part of Lineage. For<br>further details see under ISO non-<br>Core                                       | Mandatory   | 1                              | 8&13                       | Lineage (STATEMENT)   |   | Mandatory   | 1                              | 9 & 12                         | Lineage  | One mandatory field + 2 (optional)<br>continuation fields                | Mandatory    | 1       | 9 & 12      |                            |

| del Ter | thnical (GLOS) Profile (+Helen's spread   | Isheet fields) |            |              |
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|         |   |                |            |              |
|         | This is the type of export (VRML, ascii   |                |            |              |
|         | file, dxf etc). This is constrained by the<br>dictionary DIC_EXPORT_TYPE. There is  |                |            |              |
|         | also the facility to have multiple formats  | Out and        |            |              |
| E)      | for one export type, for example an image   | Optional       | Many       | 19 & 20 & 21 |
| E)      | for one export type, for example an image<br>may be .GIF or .JPEG format. These<br>formats are constrained by the dictionary                                    | Optional       | Many       | 19 & 20 & 21 |
| NE)     | for one export type, for example an image<br>may be .GIF or .JPEG format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT               | Opeonal        | Many       | 19 & 20 & 21 |
| E)      | for one export type, for example an image<br>may be .GIF or .JPEG format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT               | Opeonal        | Many       | 19 & 20 & 21 |
| (E)     | for one export type, for example an image<br>may be .GIF or .JPEG format. These<br>formats are constained by the dictionary<br>DIC_EXPORT_FORMAT                | Opeonal        | Many       | 19 & 20 & 21 |
| (E)     | for one export type, for example an image<br>may be. Gif or JuPEG format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT               | Optional       | Many       | 19 & 20 & 21 |
| E)      | for one export type, for example an image<br>may be. Gir or JPEG format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                | Optional       | Many       | 19 & 20 & 21 |
| (E)     | for one export type, for example an image<br>may be GIF or JPES format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                 | Concerna       | Many       | 19 & 20 & 21 |
| (E)     | for one export type, for example an image<br>map is GIF or JPE format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                  | Uptonal        | Many       | 19 & 20 & 21 |
| (E)     | for one export type, for example an image<br>may be GIF or JPES format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                 | Cpional        | Many       | 19 & 20 & 21 |
| E)      | for one export type, for example an image<br>may be GIP or JPE format. These<br>formats are constrained by the dictionary<br>OC_EMPORT_PORMAT                   |                | Many       | 19 & 20 & 21 |
| E)      | for one export type, for example an image<br>may be GIP - JPE format. These<br>formats are constrained by the dictionary<br>OIC_ENFORT_FORMAT                   |                | Many       | 19 & 20 & 21 |
| E)      | for one export type, for example an image<br>map is GIF or JFC format. These<br>formats are constrained by the dictionary<br>GIC_EXPORT_FORMAT                  |                | Many       | 19 & 20 & 21 |
| e)      | for one export type, for example an image<br>map is GIF or JPE format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                  |                | Many       | 19 & 20 & 21 |
| e)      | for one export type, for example an image<br>may be GIF or JPE format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                  |                | Many       | 19 & 20 & 21 |
| NE)     | for one export type, for example an image<br>may be GIP - <i>I</i> - <i>I</i> (So term). These<br>formats are constrained by the dictionary<br>OC_EXPORT_PORMAT |                | Marry      | 19 & 20 & 21 |
|         | for one export type, for example an image<br>map is GIF or JPE format. These<br>formats are constrained by the dictionary<br>DIC_ENFORT_FORMAT                  |                |            | 19 4 20 4 21 |
|         | for one export type, for example an image<br>map is GIF or JFC format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                  |                |            | 19 & 20 & 21 |
|         | for one export type, for example an image<br>map is GIF or JFC format. These<br>formats are constrained by the dictionary<br>DIC_EAPORT_FORMAT                  |                | Many       | 19420421     |
| (E)     | for one export type, for example an image<br>may be GIP - JPE format. These<br>formats are constrained by the distinuary<br>INC_EPPORT_PORMAT                   |                | Mary       | 19420421     |
|         | for one export type, for example an image<br>may be GIP - JPE format. These<br>formats are constrained by the dictionary<br>OIC_ENFORT_PORMAT                   |                |            | 19420421     |
|         | for one export type, for example an image<br>may be GIF or JPE format. These<br>formats are constrained by the dictionary<br>DIC_EAPORT_FORMAT                  |                |            | 19420421     |
|         | for one export type, for example an image<br>may be GIF or JPES format. These<br>formats are constrained by the dictionary<br>DIC_EXPORT_FORMAT                 |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the distinuary<br>INC_EPPORT_POMAT                    |                |            | 19420421     |
|         | for one export type, for example an image<br>may be GIP - JPE format. These<br>formats are constrained by the discionary<br>OC_EPPORT_PORMAT                    |                |            |              |
|         | for one export type, for example an image<br>may be GPF - JPE format. These<br>formats are constrained by the dictionary<br>DIC_EAPORT_PORMAT                   |                |            |              |
|         | for one export type, for example an image<br>may be GIF - JPE format. These<br>formats are constrained by the dictionary<br>DIC_EAPORT_PORMAT                   |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the distinuary<br>INC_EPPORT_POMAT                    |                | Maryy      |              |
|         | for one export type, for example an image<br>may be GIP - JPE format. These<br>formats are constrained by the discionary<br>OC_EPPORT_PORMAT                    |                | Mary       |              |
|         | for one export type, for example an image<br>may be GPF - JPF format. These<br>formats are constrained by the dictionary<br>OC_EAPORT_PORMAT                    |                | Maryy      |              |
|         | for one export type, for example an image<br>may be GIF - JPE format. These<br>formats are constrained by the dictionary<br>DIC_EAPORT_FORMAT                   |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the distinuary<br>OC_EPPORT_POMAT                     |                | Maryy      |              |
|         | for one export type, for example an image<br>may be GIP - JPE format. These<br>formats are constrained by the discourty<br>OC_EPPORT_PORMAT                     |                | Mary       |              |
|         | for one export type, for example an image<br>may be GPF - JPE format. These<br>formats are constrained by the dictionary<br>OC_EPFORT_PORTAT                    |                |            |              |
|         | for one export type, for example an image<br>may be GPF - JPF format. These<br>formats are constrained by the dictionary<br>DC_EAPORT_PORMAT                    |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the discoursy<br>OC_EPPORT_POMAT                      |                | Maryy      |              |
|         | for one export type, for example an image<br>may be GPF - JPF format. These<br>formats are constrained by the discourty<br>OC_EPPORT_PORTAT                     |                |            |              |
|         | for one export type, for example an image<br>may be GPF - JPF format. These<br>formats are constrained by the dictionary<br>OC_EAPORT_PORMAT                    |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the distinuity<br>OC_EPPORT_POMAT                     |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the discourty<br>OC_EPPORT_POMAT                      |                | Mary       |              |
|         | for one export type, for example an image<br>may be GPF - JPF format. These<br>formats are constrained by the discourty<br>OC_EPPORT_POMAT                      |                |            |              |
|         | for one export type, for example an image<br>may be GPF - JPF format. These<br>formats are constrained by the dictionary<br>OC_ENFORT_PORTAT                    |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the distorary<br>OC_EPPORT_PORTATIONAT                |                |            |              |
|         | for one export type, for example an image<br>may be GIP - UPE format. These<br>formats are constrained by the discourty<br>OC_EPPORT_PORTAT                     |                | Mary       |              |
|         | for one export type, for example an image<br>may be GPF - JPF format. These<br>formats are contrained by the discourty<br>OC_EPPORT_POMAT                       |                |            |              |

| 1        |            |                                 |   |  | ISO 19115:2003                                  | 1                  | 1                                  |   |                           | DGSM Data Discovery Profile  |              |            |                            |   | DGSM Model Discovery Profile   |                                 |                      |                    |                            | MidVal QC (Version 3.1)                                |                      |            |             | DGSM Model 1               | Technical (GLOS) Profile (+Helen's sp  | readsheet fields)               |            |                  |
|----------|------------|---------------------------------|---|--|---|--------------------|------------------------------------|---|---------------------------|--|--------------|------------|----------------------------|---|--|---------------------------------|----------------------|--------------------|----------------------------|--|----------------------|------------|-------------|----------------------------|--|---------------------------------|------------|------------------|
| 2        | No.        |                                 | Short Name                                | Definition   | Obligation /                                    | Maximum Occurrence | Data Type                          | Domain  | Name / Role Name          | Comments (for detailed   | Obligation / | Maximum    | Data Discovery<br>Workflow | Name / Role Name  | Comments (for detailed   | Obligation /                    | Maximum              | Model<br>Discovery | Name / Role Name           | Comments   | Obligation /         | Maximum    | QC Workflow | Name / Role Name           | Comments   | Obligation /                    | Maximum    | GLOS<br>Workflow |
|          |            |                                 |   |  | Condition                                       |                    |                                    |   |                           | This set is a set in the set in the set is a set in the set in the set is a set in the se | Condition    | Occurrence | Number                     |   | description see (k/01/61)  | Condition                       | Occurrence           | Number             |                            |  | Condition            | Occurrence | Number      |                            |  | Condition                       | Occurrence | Number           |
| 70       |            | 0                               |   |  | Continued.                                      |                    |                                    |   | 0- 1 0                    | Data Discovery Metadata - but could  | 0-11-1-1     |            |                            | 0   | This section isn't used within DGSM<br>Data Discovery Metadata - but could     | 0-11                            |                      |                    | 0- I' D                    |  | 0-11-1-1             |            |             |                            |  |                                 |            |                  |
| 70       |            | On-line resource                |   |  | Optional  |                    |                                    |   | On-line Resource          | documentation (such as project or  | Optional     | Many       |                            | On-line Resource  | documentation (such as project or  | Optional                        | Many                 |                    | On-line Resource           |  | Optional             | Many       |             |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           | BP reports)  |              |            |                            |   | BP reports)  |                                 |                      |                    |                            |  |                      |            |             |                            | This field holding the LIPL of a   |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            | visualisation or export file, is the only<br>within the GLOS metadata which wa | field                           |            |                  |
|          |            |                                 |   | location (address) for on-line acces<br>using a Uniform Resource Locator | ess<br>if                                       |                    |                                    | URL   |                           |  |              |            |                            |   |  |                                 |                      |                    | Path for folders and files |  |                      |            |             | Evont LIDI Arbitese        | actually contain a URL accessible on   | the                             |            |                  |
| 71       | 397        | linkage                         | linkage                                   | address or similar addressing<br>scheme such as                          | Mandatory                                       | 1                  | Class                              | (IETF RFC1738<br>IETF RFC 2056)                             | (LINKAGE)                 |  | Mandatory    | 1          | 17                         | (LINKAGE)   |  | Mandatory                       | 1                    | 17                 | containing the data        |  | Mandatory            | 1          | 9 & 12      | (EXPORT_URL_ADDRESS)       | entity (rather than the DataSetURI field                                       | Id -                            | Many 1     | 19 & 20 & 21     |
|          |            |                                 |   | http://www.statkart.no/isotc211  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            | would typically be VRML or possibly  | GIF                             |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            | be .pdf files  | so                              |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 71.1     | 400        | name                            | orName                                    | name of the online resource  | Optional  | 1                  | CharacterString                    | Free text   | (ORNAME)                  |  | Optional     | 1          | 17                         | (ORNAME)  |  | Optional                        | 1                    | 17                 |                            |  |                      |            |             | Export Description         | This holds a short description of the<br>export/visualisation (e.g. VRML of NS | Optional<br>32 (required if URL | Many 1     | 19 & 20 & 21     |
|          |            |                                 |   |  |   |                    | -                                  |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             | (MODEL_EXPORT_DESCRIPTION) | block model)   | address entered                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 71.2     | 401        | description                     | orDeec                                    | detailed text description of what the                                    | he Onlinnal                                     |                    | CharacterString                    | Free text   | (OPDESC)                  |  | Ontional     |            | 17                         | (OPDESC)  |  | Ontional                        |                      | 17                 | Dataile                    |  | Mandatory            | 1          | 9 8 12      |                            |  |                                 |            |                  |
| /1.2     | 401        | description                     | orbesc                                    | online resource is/does  | Opional   |                    | Characterothing                    | Fiee text   | (ORDEGC)                  |  | Optional     |            |                            | (OKDESC)  |  | Optional                        |                      | "                  | Details                    |  | manualory            |            | 5 0 12      |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           | Constrained by the ISO 19115:2003  |              |            |                            |   | 0  |                                 |                      |                    |                            | constrained by an enhanced version                     |                      |            |             |                            |  |                                 |            |                  |
| 71.3     | 402        | function                        | orFunct                                   | online resource  | e Optional                                      | 1                  | Class                              | < <codelist>&gt; (B.5.3)</codelist>                         | (ORFUNCT)                 | (B.5.3) codelist<br>(DIC_ONFUNCTCD).   | Optional     | 1          | 17                         | (ORFUNCT)   | (B.5.3) codelist (DIC_ONFUNCTCD)   | Optional                        | 1                    | 17                 |                            | codelist (DIC_ONFUNCTCD); in                           |                      |            |             |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            | equivalent to "The Data"                               |                      |            |             |                            |  |                                 |            |                  |
| 72       |            | Metadata file identifier        |   |  | Optional  |                    |                                    |   | Metadata file identifier  | This section isn't used in DGSM<br>Data Discovery Metadata   | Mandatory    | 1          |                            | Metadata file identifier                                  | This section isn't used in DGSM<br>Model Discovery Metadata                    | Mandatory                       | 1                    |                    | Metadata file identifier   |  | Mandatory            | 1          |             |                            |  |                                 |            |                  |
| 73       | 2          | fileIdentifier                  | mdFileID                                  | unique identifier for this metadata I                                    | file Optional                                   | 1                  | CharacterString                    | Free text   | (MDFILEID)                | An auto generated number - invisible<br>to the user  | Mandatory    | 1          | 8                          | (MDFILEID)  | An auto generated number - invisible<br>to the user                            | Mandatory                       | 1                    | 9                  | (MDFILEID)                 | Hidden - to be assigned<br>"automatically" when needed | Mandatory            | 1          | 9           |                            |  |                                 |            |                  |
| 74       |            | Metadata standard name          | ,   |  | Optional  |                    |                                    |   | Metadata standard name    | This section isn't used in DGSM<br>Data Discovery Metadata   | Mandatory    | 1          |                            | Metadata standard name                                    | This section isn't used in DGSM<br>Model Discovery Metadata                    | Mandatory                       | 1                    |                    | Metadata standard name     |  | Mandatory            | 1          |             |                            |  |                                 |            |                  |
| 75       | 10         | metadataStandardName            | mdStanNam                                 | e name of the metadata standard<br>(including profile name) used         | Optional  | 1                  | CharacterString                    | Free text   | (MDSTANNAME)              | Default value: the current<br>standard/profile DGSM is following   | Mandatory    | 1          | 8                          | (MDSTANNAME)  | Default value: the current<br>standard/profile DGSM is following               | Mandatory                       | 1                    | 9                  | (MDSTANNAME)               | Default = 'DGSM Midland Valley'                        | Mandatory            | 1          | 9           |                            |  |                                 |            |                  |
| 76       |            | Metadata standard versio        | m   |  | Optional  |                    |                                    |   | Metadata standard version | This section isn't used in DGSM<br>Data Discovery Metadata   | Mandatory    | 1          |                            | Metadata standard version                                 | This section isn't used in DGSM<br>Model Discovery Metadata                    | Mandatory                       | 1                    |                    | Metadata standard version  |  | Mandatory            | 1          |             |                            |  |                                 |            |                  |
| 77       | 11         | metadataStandardVersion         | n mdStanVer                               | version (profile) of the metadata<br>standard used                       | Optional  | 1                  | CharacterString                    | Free text   | (MDSTANVER)               | Default value: the current version of<br>the standard/profile DGSM is  | Mandatory    | 1          | 8                          | (MDSTANVER)   | Default value: the current version of<br>the standard/profile DGSM is          | Mandatory                       | 1                    | 9                  | (MDSTANVER)                | Default = '3.0'  | Mandatory            | 1          | 9           |                            |  |                                 |            |                  |
| 78       |            | Metadata language               |   |  | Conditional                                     |                    |                                    |   | Metadata language         | This section isn't used in DGSM  | Mandatory    | 1          |                            | Metadata language   | This section isn't used in DGSM  | Mandatory                       | 1                    |                    | Metadata language          |  | Mandatory            | 1          |             |                            |  |                                 |            |                  |
| 79       | 3          | language                        | mdLang                                    | language used for documenting  | C / not defined by                              | 1                  | CharacterString                    | ISO 639-2, other parts may be                               | (MDLANG)                  | Default (and only) value: English  | Mandatory    | 1          | 8                          | (MDLANG)  | Default (and only) value: English  | Mandatory                       | 1                    | 9                  | (MDLANG)                   | Default = 'English'                                    | Mandatory            | 1          | 9           |                            |  |                                 |            |                  |
| 80       |            | Metadata character set          |   | metadata   | Conditional                                     |                    |                                    | used  | Metadata character set    | This section isn't used in DGSM  | Mandatory    | 1          |                            | Metadata character set                                    | This section isn't used in DGSM  | Mandatory                       | 1                    |                    | Metadata character set     |  | Mandatory            | 1          |             |                            |  |                                 |            |                  |
|          |            |                                 |   |  | C / IEO/IEC 10846 1                             |                    |                                    |   |                           | Default (and only) value: (work out  |              |            |                            |   | Default (and only) value: (work out  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 81       | 4          | characterSet                    | mdChar                                    | full name of the character coding<br>standard used for the metadata se   | et defined by encoding?                         | 1                  | Class                              | MD_CharacterSetCode<br>< <codelist>&gt; (B.5.10)</codelist> | (MDCHAR)                  | from ISO 19115 B.5.10 - or add into<br>this dictionary DIC_CHARSETCD   | Mandatory    | 1          | 8                          | (MDCHAR)  | from ISO 19115 B.5.10 - or add into<br>this dictionary DIC_CHARSETCD           | Mandatory                       | 1                    | 9                  | (MDCHAR)                   | Default = 'notEntered'                                 | Mandatory            | 1          | 9           |                            |  |                                 |            |                  |
|          |            |                                 |   |  | demice by choosing.                             |                    |                                    |   |                           | 'Not Available' - this isn't important)  |              |            |                            |   | 'Not Available' - this isn't important)  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           | This wasn't in DGSM Data Discovery<br>Metadata defined in IR?01/61 but is  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 82       |            | Metadata point of contac        | at la |  | Mandatory                                       |                    |                                    |   | Metadata Point of Contact | needed and appears to be in the<br>implementation. Suggest these are   | Mandatory    | Many       |                            | Metadata Point of Contact                                 |  | Mandatory                       | Many                 |                    | Metadata Point of Contact  |  | Mandatory            | 1          |             |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           | the same as those in Dataset<br>Responsible Party so use these   |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            |                                 |   | name of the responsible person-  | C / organisationName                            |                    |                                    |   |                           | The 'Comment on Project' should<br>have included the name of the   |              |            |                            |   |  | C / Organisation                |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 83       | 375        | individualName                  | rpIndName                                 | sumame, given name, title<br>separated by a delimiter                    | and positionName not<br>documented?             | ί 1                | CharacterString                    | Free text   | (RPINDNAME)               | Project Manager. Other comments  | Mandatory    | 1          | 8                          | Authority for Reliability of<br>Metadata (1/3) (RPINDNAME | )  | and Position not<br>documented? | 1                    | 9                  | Metadata Point of Contact  |  | Mandatory            | 1          | 9           |                            |  |                                 |            |                  |
|          |            |                                 | _   |  | C / individualName                              |                    |                                    |   |                           | needed.  |              |            |                            | Authority for Reliability of                              |  | C / Name and                    |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 84       | 376        | organisationName                | rpOrgName                                 | name of the responsible organizati                                       | tion and positionName not<br>documented?        | د 1                | CharacterString                    | Free text   | (RPORGNAME)               | Possibly retrieved from a corporate system   | Optional     | 1          | 8                          | Metadata (2/3)<br>(RPORGNAME)                             |  | Position not<br>documented?     | 1                    | 9                  | Organisation               | Default = 'British Geological Survey'                  | Optional             | 1          | 9           |                            |  |                                 |            |                  |
|          | 077        |                                 | - Dealling                                |  | C / individualName<br>and                       |                    | 01                                 | Frankes   | (0000011115)              | This should be linked to the Projects  | Mandata      |            |                            | Authority for Reliability of                              |  | C / Name and                    |                      |                    | Destrict a Destruct        | Defects Trans March and                                | Outrand              |            |             |                            |  |                                 |            |                  |
| 85       | 3//        | positionName                    | rpPosName                                 | role or position of the responsible                                      | organisationName nor<br>documented?             | nt 1               | CharacterString                    | Free text   | (RPPOSNAME)               | database   | Mandatory    | 1          | 8                          | (RPPOSNAME)   |  | documented?                     | 1                    | 9                  | Position + Project         | Default = 'Leam Member'                                | Optional             | 1          | 9           |                            |  |                                 |            |                  |
| 86       | 408        | unice                           | voiceNum                                  | telephone number by which<br>individuals can speak to the                | Ontional  | N                  | CharacterString                    | Free text   | (VOICENIIM)               |  | Ontional     | Many       | 8                          | 0/OICENUM)  |  | Ontional                        | Many                 |                    | Telephone No               | Default = '+44 131 667 1000'                           | Ontional             | 1          | •           |                            |  |                                 |            |                  |
| 00       | 408        | voice                           | voiceivain                                | responsible organization or<br>individual                                | Optional  |                    | Characterothing                    | Fiee text   | (VOICENDM)                |  | Optional     | inidity    | 8                          | (VOICENOM)  |  | Optional                        | many                 | ,                  | releptione No              | Delaux = +44 131 007 1000                              | Optional             |            | ,           |                            |  |                                 |            |                  |
| 87       | 409        | facsimile                       | faxNum                                    | telephone number of a facsimile<br>machine for the responsible           | Optional  | N                  | CharacterString                    | Free text   | (FAXNUM)                  |  | Optional     | Many       | 8                          | (FAXNUM)  |  | Optional                        | Many                 | 9                  | FAX No                     | Default = '+44 131 667 2785'                           | Optional             | 1          | 9           |                            |  |                                 |            |                  |
|          |            |                                 |   | organization or individual   |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    | -                          |  |                      |            |             |                            |  |                                 |            |                  |
| 88       | 381        | deliveryPoint                   | delPoint                                  | address line for the location (as described in ISO 11180, Annex A)       | Optional  | N                  | CharacterString                    | Free text   | (DELPOINT)                |  | Mandatory    | 1          | 8                          | (DELPOINT)  |  | Mandatory                       | 1                    | 9                  | Address                    | Default = 'Murchison House, West<br>Mains Road'        | Optional             | 1          | 9           |                            |  |                                 |            |                  |
|          |            |                                 |   | , , , , , , , , , , , , , , , , , , ,                                    | ,<br>   |                    |                                    |   |                           | These items were not included in the<br>DGSM Data Discovery Metadata.  |              |            |                            |   | These items were not included in the<br>DGSM Model Discovery Metadata.         |                                 |                      |                    | _                          |  |                      |            |             |                            |  |                                 |            |                  |
| 89<br>90 | 382<br>383 | city<br>administrativeArea      | city<br>adminArea                         | city of the location<br>state, province of the location                  | Optional<br>Optional                            | 1                  | CharacterString<br>CharacterString | Free text<br>Free text                                      | (CITY)<br>(ADMINAREA)     | As long as the mandatory fields (at least) are retrievable from a  | Optional     | 1          | 8                          | (CITY)<br>(ADMINAREA)                                     | As long as the mandatory fields (at least) are retrievable from a              | Mandatory<br>Optional           | 1                    | 9                  | City<br>Admin Area         | Default = 'Edinburgh'                                  | Optional<br>Optional | 1          | 9           |                            |  |                                 |            |                  |
| 91       | 384        | postalCode                      | postCode                                  | ZIP or other postal code   | Optional  | 1                  | CharacterString                    | ISO 3166-3, other parts may b                               | (POSTCODE)                | corporate system, there is no need<br>to include them  | Optional     | 1          | 8                          | (POSTCODE)  | corporate system, there is no need<br>to include them                          | Optional                        | 1                    | 9                  | Postcode                   | Default = 'EH9 3LA'                                    | Optional             | 1          | 9           |                            |  |                                 |            |                  |
| 92       | 385        | country                         | country                                   | country of the physical address  | Optional  | 1                  | CharacterString                    | used  | (COUNTRY)                 |  | Mandatory    | 1          | 8                          | (COUNTRY)   |  | Mandatory                       | 1                    | 9                  | Country                    | Default = 'United Kingdom'                             | Optional             | 1          | 9           |                            |  |                                 |            |                  |
| 93       | 386        | electronicMailAddress           | eMailAdd                                  | the responsible organization or<br>individual                            | Optional  | 1                  | CharacterString                    | Free text   | (EMAILADD)                |  | Optional     | Many       | 8                          | (EMAILADD)  |  | Optional                        | Many                 | 9                  | Email                      |  | Mandatory            | 1          | 9           |                            |  |                                 |            |                  |
|          |            |                                 |   | location (address) for on-line acces                                     | ess   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 94       | 397        | linkage                         | linkage                                   | address or similar addressing<br>scheme such as                          | Mandatory                                       | 1                  | Class                              | URL (IETF RFC1738 IETF<br>RFC 2056)                         | (LINKAGE)                 |  | Optional     | 1          | 8                          | (LINKAGE)   |  | Optional                        | 1                    | 9                  | Linkage                    | Default = 'http://www.bgs.ac.uk'                       | Optional             | 1          | 9           |                            |  |                                 |            |                  |
|          |            |                                 | _   | http://www.statkart.no/isotc211  |   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           | Constrained by the ISO 19115:2003<br>(B.5.5) codelist (DIC_ROLECD) but   |              |            |                            |   | (B.5.5) codelist (DIC_ROLECD) but  |                                 |                      |                    |                            | Default = 'pointOfContact'.                            |                      |            |             |                            |  |                                 |            |                  |
| 95       | 379        | role                            | role                                      | responsible party  | Mandatory                                       | 1                  | Class                              | (B.5.5)   | (ROLE)                    | codelist could have added to it<br>'Project' (and the other entries  | Mandatory    | 1          | 8                          | (ROLE)  | added to) - but it will only contain a   | Mandatory                       | 1                    | 9                  | Role                       | (B.5.5) codelist (DIC_ROLECD) but                      | Optional             | 1          | 9           |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           | removed  |              |            |                            |   | of Metadata maybe an extra entry   |                                 |                      |                    |                            | codelist ennanced                                      |                      |            |             |                            |  |                                 |            |                  |
| 96       |            | Metadata date stamp             |   |  | Mandatory                                       |                    |                                    |   | Metadata Date Stamp       | This section isn't used in DGSM<br>Data Discovery  | Mandatory    | 1          |                            | Metadata Date Stamp                                       |  | Mandatory                       | 1                    |                    | Metadata Date Stamp        |  | Mandatory            | 1          |             |                            |  |                                 |            |                  |
| 97       | 9          | dateStamp                       | mdDateSt                                  | date that the metadata was create  | ed Mandatory                                    | 1                  | Class                              | Date (B 4 2)  | (MDDATEST)                | Note this is the date the metadata<br>were completed - not the date the  | Mandatory    | 1          | 17                         | Date of Update of Metadata                                | Note this is the date the metadata<br>were completed - not the date the        | Mandatory                       | 1                    | 17                 | Date Metadata were         |  | Mandatory            | 1          | 12          |                            |  |                                 |            |                  |
|          |            |                                 |   |  |   |                    |                                    |   |                           | database   |              |            |                            | (MDDATEST)  | database   |                                 |                      |                    | Completed                  |  |                      |            |             |                            |  |                                 |            |                  |
| 97.0     |            | Dataset Responsible Port        | tv  |  | Ontional  | 2Many              |                                    |   |                           |  |              |            |                            | (External) Model Access                                   | Dataset Responsible Party but is<br>documented senarately for clarity          | Mandatory                       | Many                 |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 57.0     |            |                                 |   |  | optional  |                    |                                    |   |                           |  |              |            |                            | A   | It's just another role within Dataset<br>Responsible Party                     |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            | 1. di 1. di 1.                  |   | name of the responsible person-  | C / organisationName                            |                    | 0                                  |   |                           |  |              |            |                            | Contact Name (1/2)  |  | C / Position not                |                      | <i></i>            |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.0     | 375        | individualName                  | rpindName                                 | separated by a delimiter   | documented?                                     | . 1                | CnaracterString                    | Pree text   |                           |  |              |            |                            | (RPINDNAME)   |  | documented?                     | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.0     | 376        | organisationName                | rpOrgName                                 | name of the responsible organizati                                       | C / individualName<br>tion and positionName not | t 1                | CharacterString                    | Free text   |                           |  |              |            |                            | Supplier (RPORGNAME)                                      |  | Mandatory                       | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| $\vdash$ |            |                                 |   |  | documented?<br>C / individualName               |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.04    | 377        | positionName                    | rpPosName                                 | role or position of the responsible                                      | and<br>organisationName no                      | t 1                | CharacterString                    | Free text   |                           |  |              |            |                            | Contact Name (2/2)<br>(RPPOSNAME)                         |  | C / Name not<br>documented?     | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| -        |            |                                 |   | telephone number by which  | documented?                                     |                    |                                    |   |                           |  |              |            |                            | Tala  |  |                                 | 1 (but Many me       |                    |                            |  |                      |            |             |                            |  |                                 | <u> </u>   |                  |
| 97.0     | 408        | voice                           | voiceNum                                  | responsible organization or  | Optional  | N                  | CharacterString                    | Free text   |                           |  |              |            |                            | (VOICENUM)  |  | Optional                        | be a requirement)    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 07.0     | 400        | famin? -                        | laution                                   | telephone number of a facsimile  | Ontinent  | N                  | Champio Cirio                      | Free text   |                           |  |              |            |                            | Earsimile Mumber (71991                                   |  | Online                          | 1 (but Many may      | 47                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.0     | 409        | tacsimile                       | taxNum                                    | organization or individual   | Optional  | N                  | CnaracterString                    | Piee text   |                           |  |              |            |                            | Pacsimile Number (FAXNUM                                  | -  | Optional                        | be a<br>requirement) | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.0     | 381        | deliveryPoint                   | delPoint                                  | described in ISO 11180, Annex A)   | ) Optional                                      | N 1                | CharacterString                    | Free text   |                           |  |              |            |                            | (DELPOINT)  |  | Mandatory                       | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.0     | 383        | administrativeArea              | adminArea                                 | state, province of the location  | Optional  | 1                  | CharacterString                    | Free text   |                           |  |              |            |                            | Postal Address (3/4)<br>(ADMINAPEA)                       | As long as the mandatory fields (at least) are retrievable from a              | Optional                        | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.1     | 384        | postalCode                      | postCode                                  | ZIP or other postal code   | Optional  | 1                  | CharacterString                    | Free text<br>ISO 3166-3, other parts more to                |                           |  |              |            |                            | Postcode (POSTCODE)                                       | corporate system, there is no need<br>to include them                          | Optional                        | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.1     | 385        | country                         | country                                   | address of the electronic mailbox  | Optional  | 1                  | CharacterString                    | used  |                           |  |              |            |                            | (COUNTRY)   |  | Mandatory                       | 1<br>1 (but Many mes | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.1     | 386        | electronicMailAddress           | eMailAdd                                  | the responsible organization or<br>individual                            | Optional  | 1                  | CharacterString                    | Free text   |                           |  |              |            |                            | Email Address (EMAILADD)                                  |  | Optional                        | be a requirement)    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            |                                 |   | location (address) for on-line acces<br>using a Uniform Resource Locator | ess<br>ir                                       |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.1     | 397        | linkage                         | linkage                                   | address or similar addressing<br>scheme such as                          | Mandatory                                       | 1                  | Class                              | RFC 2056)   |                           |  |              |            |                            | Web Address (LINKAGE)                                     |  | Optional                        | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| -        |            |                                 |   | http://www.statkart.no/isotc211  |   |                    |                                    |   |                           |  |              |            |                            |   | Constrained by the ISO 10115-0000  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            |                                 |   | function performed by the  |   |                    |                                    | CI RoleCodeCodel int-                                       |                           |  |              |            |                            |   | (B.5.5) codelist (DIC_ROLECD) but<br>codelist reduced (and presible            |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 97.14    | 379        | role                            | role                                      | responsible party  | Mandatory                                       | 1                  | Class                              | (B.5.5)   |                           |  |              |            |                            | (ROLE)  | added to) - but it will only contain a<br>few entries. Originator - originator | Mandatory                       | 1                    | 17                 |                            |  |                      |            |             |                            |  |                                 |            |                  |
| _        |            |                                 |   |  | 10115-2022 11-                                  |                    |                                    |   |                           | 100 10115-0005   |              |            |                            |   | Supplier = resourceProvider  |                                 |                      |                    |                            | 100 10110 0000   |                      |            |             |                            | 100 10110 0000   |                                 |            |                  |
| 98       |            | MD Molecular 1                  |   | ISO 1<br>information about the scope and                                 | Use obligation from                             | Use maximum        | Aggregated Class                   | 1 1000 145 145 1  |                           | 15U 19115:2003 Non-Core  |              |            |                            |   | 15U 19115:2003 Non-Core  |                                 |                      |                    |                            | 150 19115:2003 Non-Core                                |                      |            |             |                            | 150 19115:2003 Non-Core  |                                 |            |                  |
| 99       | 192        | ma_maintenanceInformatio        | mantinfo                                  | frequency of updating  | referencing object                              | referencing object | MD_Identification)                 | Cares 190*190.1   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
| 100      | 143        | maintenanceAndUpdateFre<br>encv | qu maintFreq                              | frequency with which changes and<br>additions are made to the resource   | d<br>Mandatory                                  | 1                  | Class                              | MD_MaintenanceFrequencyCo                                   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |
|          |            | Liney                           |   | after the initial resource is complet                                    | ted   |                    |                                    |   |                           |  |              |            |                            |   |  |                                 |                      |                    |                            |  |                      |            |             |                            |  |                                 |            |                  |

| 1      |      |                            |               |  | SO 19115:2003  |  |  |   |  | DGSM Data Discovery Profile   |                           |   |                                      |  | DGSM Model Discovery Profile   |                           |  | Model                                    |   | MidVal QC (Version 3.1)  |                           |   | ·                     | DGS             |
|--------|------|----------------------------|---------------|--|--|--|--|---|--|---|---------------------------|---|--------------------------------------|--|--|---------------------------|--|--|---|--|---------------------------|---|-----------------------|-----------------|
| 2      | No.  |                            | Short Name    | Definition   | Obligation /<br>Condition  | Maximum Occurrence                                   | e Data Type  | Domain  | Name / Role Name   | Comments (for detailed<br>description see IR/01/61)   | Obligation /<br>Condition | Maximum<br>Occurrence                   | Data Discovery<br>Workflow<br>Number | Name / Role Name   | Comments (for detailed<br>description see IR/01/61)  | Obligation /<br>Condition | Maximum<br>Occurrence  | Wodel<br>Discovery<br>Workflow<br>Number | Name / Role Name                                | Comments   | Obligation /<br>Condition | Maximum<br>Occurrence   | QC Workflow<br>Number | Name / Role Nam |
| 101    |      |                            |               |  |  |  |  |   | Supplementary Information  | Publications and Publications codes<br>are included in the implementation<br>but not IR/01/81. Can these be deall<br>with as just extra free text?<br>Agreed JLL 8 Apr 2004   | Optional                  | 1                                       |                                      | Supplementary Information  |  | Optional                  | 1  |  | Supplementary Information                       |  | Mandatory                 | 1   |                       |                 |
| 102    | 46   | supplementalInformation    | supplnfo      | any other descriptive information about the dataset  | Optional   | 1  | CharacterString  | Free text   | Additional Information Source  | This info could be fitted in elsewhere<br>into ISO - but it's over the top to do<br>so (KAH)  | Mandatory                 | 1                                       | 8 & 13 & 17                          | Comment on Originator +<br>Comment on Delivery Forma<br>+ Additional Information<br>Source   | This info could be fitted in elsewhere<br>t into ISO - but it's over the top to do<br>so (KAH).<br>Agreed JLL 8 Apr 2004   | Mandatory                 | 1 (many for<br>Additional<br>Information<br>Source but is in<br>reality 1) | 9 & 12 &17                               | Any Additional Information                      | One mandatory field + 2 (optional)<br>continuation fields  | Mandatory                 | 1   | 9 & 12                |                 |
| 103    | 67   | MD_Constraints             | Consts        | restrictions on the access and use of a resource or metadata   | If Use abligation from<br>referencing object                                 | Use maximum<br>occurrence from<br>referencing object | Aggregated Class<br>(MD_Metadata and<br>MD_Identification) | Line 68   | Constraint Information   | This is not currently in the DGSM<br>Data Discovery metadata but needs<br>to be.  | Optional                  | Many                                    |                                      | Constraint Information   | No constraint information needs to<br>be provided. Access Constraint(s)<br>can be provided without Use<br>Constraint(s) and vice versa. (The<br>mandatory requirement for Access<br>Constraint' and Use Constraint is<br>just to follow conventions for the rest<br>of the document, where fields are<br>grouped togethen).<br>Maximum Occurrence should be<br>Marv. III & Are 2014. | Optional                  | 1 (but probably<br>should be<br>Many)                                      |  | Constraint Information                          |  | Optional                  | Many (there<br>can be many<br>access<br>constraints,<br>many use<br>constraints but<br>only one other<br>constraint on<br>the metadata) |                       |                 |
| 104    | 70   | accessConstraints          | accessConsts  | access constraints applied to assure<br>the protection of privacy or<br>intellectual property, and any specia<br>restrictions or limitations on<br>obtaining the resource or metadata  | e<br>al Optional   | N  | Class  | MD_RestrictionCode<br>< <codelist>&gt; (B.5.24)</codelist>    | Access Constraint  | Constrained by the ISO 19115:2003<br>(B.5.24) codelist. A dictionary<br>(DIC_RESTRICTCD) needs creating<br>for this   | Mandatory                 | Many                                    | 8 & 13 & 17                          | Access Constraint  | Constrained by the ISO 19115:2003<br>(B.5.24) codelist. A dictionary<br>(DIC_RESTRICTCD) needs creating<br>for this  | Mandatory                 | 1 (but probably<br>should be Many)   | 9 & 12 & 17                              | Access Constraint                               | Constrained by the ISO 19115:2003<br>(B.5.24) codelist.  | Optional                  | Many  | 9 & 12                |                 |
| 105    | 71   | useConstraints             | useConsts     | constraints applied to assure the<br>protection of privacy or intellectual<br>property, and any special restriction<br>or limitations or warnings on using<br>the resource or metadata | is Optional  | N  | Class  | MD_RestrictionCode<br>< <codelist>&gt; (B.5.24)</codelist>    | Use Constraint   | Constrained by the ISO 19115:2003<br>(B.5.24) codelist. A dictionary<br>(DIC_RESTRICTCD) needs creating<br>for this   | Mandatory                 | Many                                    | 8 & 13 & 17                          | Use Constraint   | Constrained by the ISO 19115:2003<br>(B.5.24) codelist. A dictionary<br>(DIC_RESTRICTCD) needs creating<br>for this  | Mandatory                 | 1 (but probably<br>should be Many)   | 9 & 12 & 17                              | Use Constraint                                  | Constrained by the ISO 19115:2003<br>(B.5.24) codelist.  | Optional                  | Many  | 9 & 12                |                 |
| 106    | 72   | otherConstraints           | othConsts     | other restrictions and legal<br>prerequisites for accessing and<br>using the resource or metadata  | C / accessConstraints<br>or useConstraints<br>equal<br>"otherRestrictions"?  | s<br>N   | CharacterString  | Free text   | Comment on Access and Us<br>Constraints  | Free text field.<br>e It can only be populated if 'Use<br>Constraint' or 'Access Constraint'<br>has a value of "other restrictions"   | Optional                  | 1                                       | 8 & 13 & 17                          | Comment on Access and Use<br>Constraints   | Free text field.<br>It can only be populated if 'Use<br>Constraint' or 'Access Constraint'<br>has a value of 'other restrictions'  | Optional                  | 1  | 9 & 12 &17                               | Other Constraint Information                    |  | Optional                  | 1   | 9 & 12                |                 |
| 107    | 52   | MD_Keywords                | Keywords      | keywords, their type and reference source  | Use obligation from<br>referencing object                                    | Use maximum<br>occurrence from<br>referencing object | Aggregated Class<br>(MD_Identification)                    | Lines 53-55   | Keywords   | Each Keyword must be from a<br>specified thesaurus.<br>Each Thesaurus can have several<br>dates (of different types) - but must<br>have at least one<br>For a given dataset, each keyword<br>must be from the same version of<br>the same thesaurus   | Mandatory                 | Many                                    |                                      | Keywords   | Each Keyword must be from a<br>specified thesaurus.<br>Each Thesaurus can have several<br>dates (of different types) - but must<br>have at least one<br>for a given dataset, each keyword<br>must be from the same version of<br>the same thesaurus  | Mandatory                 | Many   |  | Keywords  | (Removed from MidVal QC 3.1 -<br>KAH 6 Apr 2004)   | Optional                  | Many  |                       |                 |
| 108    | 53   | keyword                    | keyword       | commonly used word(s) or<br>formalised word(s) or phrase(s)  | Mandatory  | N  | CharacterString  | Free text   | Keyword  |   | Mandatory                 | Many                                    | 17 (by Helen)                        | Keyword  |  | Mandatory                 | Many   | 17 (by Helen)                            |   |  |                           |   |                       |                 |
| 109    | 360  | title                      | resTitle      | name by which the cited resource is known  | 3 Mandatory  | 1  | CharacterString  | Free text   | Thesaurus Name   | This should be a default value - the<br>current version of the AMF.<br>and ADD_CITATION_ID)<br>Note: version control will need  | Mandatory                 | 1                                       |                                      | Thesaurus Name   | This should be a default value - the<br>current version of the AMF.<br>and ADD_CITATION_ID)<br>Note: version control will need   | Mandatory                 | 1  |  |   |  |                           |   |                       |                 |
| 109.1  | 371  | collectiveTitle            | collTitle     | common title with holdings note<br>NOTE title identifies elements of a<br>series collectively, combined with<br>information about what volumes are                                     | Optional   | 1  | CharacterString  | Free text   | Collective Title   | implementing on the Thesaurus.<br>Should be always "Thesaurus"  | Mandatory                 | 1                                       |                                      | Collective Title   | implementing on the Thesaurus.<br>Should be always "Thesaurus"   | Mandatory                 | 1  |  |   |  |                           |   |                       |                 |
| 110    | 394  | date                       | refDate       | available at the source cited<br>reference date for the cited resource   | e Mandatory  | N  | Class  | Date (B.4.2)  | Date (REFDATE)   | Reference Dates for the Thesaurus   | Mandatory                 | Many                                    |                                      | Date (REFDATE)   | Reference Dates for the Thesaurus  | Mandatory                 | Many   |  |   |  |                           |   |                       |                 |
| 111    |      |                            |               |  |  |  |  |   | Date Precision   | Constrained by a dictionary<br>(DIC_ADD_DATEPRCN) for<br>relational implementation. Dictionary  | Mandatory                 | 1                                       |                                      | Date Precision   | Constrained by a dictionary<br>(DIC_ADD_DATEPRCN) for<br>relational implementation. Dictionary   | Mandatory                 | 1  |  |   |  |                           |   |                       |                 |
|        |      |                            |               |  |  |  |  |   |  | consists of 'Century', 'Year', 'Minute',<br>etc.)<br>Constrained by a dictionary<br>(DIC ADD TM RELATIVEPOSITIO   |                           |   |                                      |  | consists of 'Century', 'Year', 'Minute',<br>etc.)<br>Constrained by a dictionary<br>(DIC ADD TM RELATIVEPOSITIO  |                           |  |  |   |  |                           |   |                       |                 |
| 112    |      |                            |               |  |  |  |  |   | Date Relation<br>(ADD_TM_RELATIVEPOSI<br>ON)   | N) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should<br>be 'Equals'.   | Mandatory                 | 1                                       |                                      | Date Relation<br>(ADD_TM_RELATIVEPOSIT<br>ON)  | N) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should<br>be 'Equals'   | Mandatory                 | 1  |  |   |  |                           |   |                       |                 |
| 113    | 395  | dateType                   | refDateType   | event used for reference date  | Mandatory  | N  | Class  | Cl_DateTypeCode<br>< <codelist>&gt; (B.5.2)</codelist>        | Date Type (REFDATETYPE   | (B.5.2) codelist (DIC_DATETYPCD)  | Mandatory                 | 1                                       |                                      | Date Type (REFDATETYPE)  | (B.5.2) codelist (DIC_DATETYPCD)   | Mandatory                 | 1  |  |   |  |                           |   |                       |                 |
| 114    | 66.1 | MD_AggregateInformation    | AggregateInfo | aggregate dataset information  | Use obligation from<br>referencing object                                    | Use maximum<br>occurrence from<br>referencing object | Aggregated Class<br>(MD_Identification)                    | Lines 68.2-66.5   | Dataset Association  | Maximum Occurrence should be "1"<br>because a DGSM data(sub)set can<br>only be derived from one other<br>datatset JLL 8 Apr 2004  | Optional                  | 1 (but Many<br>may be a<br>requirement) |                                      | Dataset Association (this is<br>not currently in the system<br>for Model Discovery)  | Many's because a DGSM model can<br>be derived from many other<br>data(sub)sets and models JLL 8 Apr<br>2004  | Optional                  | 1 (but Many<br>may be a<br>requirement)                                    |  | Dataset Association                             | This can be anything - it can't be   | Optional                  | Many  |                       |                 |
| 115    | 66.3 | aggregateDataSetIdentilier | aggrDSIdent   | identification information about<br>aggregate dataset  | C / if<br>aggregateDataSetNa<br>me not documented?                           | 1  | Class  | MD_Identifier (B.2.7.3)<br>< <datatype>&gt;</datatype>        | Parent Dataset Identifier (o<br>Parent Data Subset Identifie   | This is the identifier of the<br>r associated dataset (according to<br>r) ISO, this is RESTITLE, but better to<br>use ADD_CITATION_ID)  | Mandatory                 | 1                                       | 8 & 13 & 17                          | Parent Dataset Identifier (or<br>Parent Data Subset Identifier<br>Source Identifier  | This is the identifier of the<br>associated dataset (according to<br>ISO, this is RESTITLE, but better to<br>use ADD_CITATION_ID)  | Mandatory                 | 1  | 9 & 12 & 17                              | Associated Data(sub)set or<br>model             | controlled because the QC is held in<br>a simple spreadsheet. The rules<br>are: "Enter the title of any associated<br>data(sub)set or Model. This should<br>be the same as the title given on in<br>the QC". | Mandatory                 | 1   | 9 & 12                |                 |
| 116    | 66.4 | associationType            | assocType     | association type of the aggregate dataset  | Mandatory  | 1  | Class  | DS_AssociationTypeCode<br>(B.5.7) < <codelist>&gt;</codelist> | ASSOCTYPE  | Constrained by the ISO 19115:2003<br>(B.5.7) codelist (Probably reduced to<br>a single value - targer/WorkCitation)<br>but extended as needed   | Mandatory                 | 1                                       | 8 & 13 & 17                          | ASSOCTYPE  | Constrained by the ISO 19115:2003<br>(B.5.7) codelist (Probably reduced to<br>a single value - largerWorkCitation)<br>but extended as needed   | Mandatory                 | 1  | 9 & 12 & 17                              | Type of Association                             | Constrained by the ISO 19115:2003<br>(B.5.7) codelist but cut down to<br>"largerWorkCitation" and 'source'   | Mandatory                 | 1   | 9 & 12                |                 |
| 116.1  |      | Lineage                    |               |  | Optional   |  |  |   | Lineage  | Some items in this area ISO Core,<br>some ISO non-Core and some non<br>ISO. Each is identified in the<br>comments   | Mandatory                 | 1                                       |                                      | Lineage  | Not currently used in DGSM Model<br>Discovery Metadata - probably<br>should be   | Optional                  | 1  |  |   |  |                           |   |                       |                 |
| 116.2  | 83   | statement                  | statement     | general explanation of the data<br>producer's knowledge about the<br>lineage of a dataset  | C /<br>(DQ_DataQuality.sco<br>pe.DQ_Scope.level =<br>"dataset" or "series")? | 1  | Lines 87-91  | Free text   | Lineage (part) (STATEMENT  | ) See details under ISO Core  | Mandatory                 | 1                                       | 8&13                                 | (STATEMENT)  | See details under ISO Core   | Mandatory                 | 1  | 9 & 12                                   |   |  |                           |   |                       |                 |
| 116.3  | 86   | LI_ProcessStep             | PrcessStep    | information about an event or<br>transformation in the life of a datase<br>including the process used to<br>maintain the dataset   | t Use obligation from<br>referencing object                                  | Use maximum<br>accurrence from<br>referencing object | Aggregated Class<br>LI_Lineage and<br>LI_Source)           | Lines 87-91   | Lineage - Inclusion and<br>Exclusion Details   | This has been changed around quite<br>a bit to reflect tatest ISO. By<br>including a datellime, it also reflects<br>the order of things. The notes for<br>guidance need to state what should<br>be included<br>The application <b>must</b> have each type<br>of step (see original regord) as<br>separate parts so that users <b>have</b> to<br>complete this into JLL 8 Apr 2004 | Mandatory                 | Many                                    |                                      | Process Definition   | The application <u>must</u> have each type<br>of step (see original report) as<br>separate parts so that users <u>have</u> to<br>complete this info JLL 8 Apr 2004   | Mandatory                 | Many   |  | Process Definition                              |  | Optional                  | Many  |                       |                 |
| 116.30 | 1    |                            |               |  |  |  |  |   | Type of Step   | Controlled by a dictionary.   | Mandatory                 | 1                                       | 8&13                                 | Type of Step   | Controlled by a dictionary containing<br>values 'Process Interpretation',<br>'Process Interpolation', 'Data Item<br>Interpretation', 'Data Item<br>Assumption', 'General'  | Mandatory                 | 1  | 9&12                                     | Type of Step                                    | Controlled by a dictionary containing<br>'Inclusion', 'Exclusion', 'Processing'  | Mandatory                 | 1   | 9 & 12                |                 |
| 116.30 | 2    |                            |               |  |  |  |  |   | Confidence   | Controlled by a dictionary.   | Mandatory                 | 1                                       | 8 & 13                               | Confidence<br>The description part of 1)   | Controlled by a dictionary.  | Mandatory                 | 1  | 9 & 12                                   |   |  |                           |   |                       |                 |
| 116.31 | 87   | description                | stepDesc      | description of the event, including<br>related parameters or tolerances  | Mandatory  | 1  | CharacterString  | Free text   | 1) Inclusion Criteria, 2) Data<br>Item Inclusion Criteria, 3) Da<br>Item Exclusion Criteria  | a<br>ISO non-Core   | Mandatory                 | 1                                       | 8&13                                 | Interpretation, 2) Assumption:<br>3) Interpolation/modelling<br>process, 4) Data Item<br>Interpretation, 5) Data Item<br>Assumptions, 6) Data Item<br>interpolation/modelling<br>process | s,<br>ISO non-Core   | Mandatory                 | 1  | 9 & 12                                   | Detailed Description of each<br>processing Step |  | Mandatory                 | 1   | 9 & 12                |                 |
| 116.32 | 88   | rationale                  | stepRat       | requirement or purpose for the<br>process step   | Optional   | 1  | CharacterString  | Free text   | 1) Reasons for Inclusion<br>Criteria, 2) Reasons for Dat<br>Item Inclusion Criteria, 3)<br>Reasons for Data Item<br>Exclusion Criteria | a<br>ISO non-Core   | Mandatory                 | 1                                       | 8 & 13                               | The rationale part of 1)<br>Interpretation, 2) Assumptions<br>3) Interpolation/modelling<br>process, 4) Data Item<br>Interpretation, 5) Data Item<br>interpolation/modelling<br>process  | s,<br>ISO non-Core   | Mandatory                 | 1  | 9&12                                     | Rationale for the Processing<br>Step            |  | Mandatory                 | 1   | 9&12                  |                 |
| 116.33 |      |                            |               |  |  |  |  |   | Inclusion Criteria SQL   | Non-ISO. Probably not needed as<br>unlikely to reproduce same data<br>(KAH). Agreed noi longer needed -<br>data(sub)set should be held where<br>practical KAH/.JLL 6 Apr 2004   | Optional                  | 1                                       | 8 & 13                               |  |  |                           |  |  |   |  |                           |   |                       |                 |
| 116.4  | 89   | dateTime                   | stepDateTm    | date and time or range of date and<br>time on or over which the process<br>step occurred   | Optional   | 1  | Class  | DateTime (B.4.2)  | STEP_DT  | ISO non-Core - Time/Date the event<br>occurred  | Mandatory                 | 1                                       | 8 & 13                               | STEP_DT  | ISO non-Core - Time/Date the event<br>occurred   | Mandatory                 | 1  | 9 & 12                                   | Date of Processing Step                         |  | Mandatory                 | 1   | 9 & 12                |                 |
| 116.41 |      |                            |               |  |  |  |  |   | STEP_DT_PRECISION  | Constrained by a dictionary<br>(DIC_ADD_DATEPRCN) for<br>relational implementation. Dictionary<br>consists of 'Century', 'Year', 'Minute',<br>etc.)   | Mandatory                 | 1                                       | 8 & 13                               | STEP_DT_PRECISION  | Constrained by a dictionary<br>(DIC_ADD_DATEPRCN) for<br>relational implementation. Dictionary<br>consists of 'Century', 'Year', 'Minute',<br>etc.)  | Mandatory                 | 1  | 9 & 12                                   | Precision of Date                               | Default = 'day'. Constrained by<br>dictionary consisting of 'minute',<br>'hour', 'day', 'month', 'year'  | Mandatory                 | 1   | 9 & 12                |                 |
| 116.42 |      |                            |               |  |  |  |  |   | STEP_DT_RELATIVEPOSI<br>ON   | Constrained by a dictionary<br>(DIC_ADD_TM_RELATIVEPOSITIO<br>IN) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should  | Mandatory                 | 1                                       | 8&13                                 | STEP_DT_RELATIVEPOSIT<br>ON  | Constrained by a dictionary<br>(DIC_ADD_TM_RELATIVEPOSITIO<br>1 N) for relational implementation.<br>Dictionary consists of 'Before', 'After'<br>and 'Equals'. Default value should  | Mandatory                 | 1  | 9&12                                     | Date Relation                                   | Default = '='. Constrained by<br>dictionary consisting of '>', '<', '='  | Mandatory                 | 1   | 9&12                  |                 |
| 116.43 | 92   | LI_Source                  | Source        | information about the source data used in creating the data specified  | Use obligation from<br>referencing object                                    | Use maximum<br>occurrence from                       | Aggregated Class<br>(LI_Lineage and                        | Lines 93-98   | Source Data  | De Equais   | Optional                  | 1                                       |                                      | Source Data  | De Equais  | Optional                  | 1  |  |   |  |                           |   |                       |                 |
| 116.44 | 93   | description                | srcDesc       | detailed description of the level of the source data   | C / sourceExtent not<br>providert?   | rererencing object                                   | CharacterString  | Free text   | 1) Data Items File 2) Data<br>Item Identifier Description o  | Description of other "dataset". To be<br>automatically populated if ID of   | Mandatory                 | 1                                       | 8 & 13                               | SRCDESC  | Description of other "dataset". To be<br>automatically populated if ID of  | Mandatory                 | 1  | 9 & 12                                   |   |  |                           |   |                       |                 |
| 116.45 | 96   | sourceCitation             | srcCitatn     | recommended reference to be used<br>for the source data  | 1 Optional   | 1  | Class  | CI_Citation < <datatype>&gt;<br/>(B.3.2)</datatype>           | ID of Citation of source<br>data(sub)set or model  | Citation' supplied from resTitle  | Optional                  | 1                                       | 8 & 13                               | ID of Citation of source<br>data(sub)set or model  | Unation' supplied from resTitle  | Optional                  | 1  | 9 & 12                                   | Manfred F                                       |  |                           |   |                       |                 |
| 116.5  |      | Reference system           |               |  | Optional   |  |  |   | Vertical Reference System  | 1   | Mandatory                 | 1                                       | l                                    | Vertical Reference System  | G  | Mandatory                 | 1  |  | Vertical Reference System                       |  | Optional                  | 1   |                       |                 |

| del Te | thnical (GLOS) Profile (+Helen's spread | Sheet fields) | Maximum    | GLOS               |
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|        | Comments                                | Condition     | Occurrence | Workflow<br>Number |
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| 1         |         |                         | 1                  |  | SO 19115:2003                             |                                |                                   |  |                           | DGSM Data Discovery Profile  |              |                          |                            |  | DGSM Model Discovery Profile   | •                          |                          |                    |                                       | MidVal QC (Version 3.1)  |              |                                 |                | DGSM Model Te                    | echnical (GLOS) Profile (+Helen's spreadsheet fields)                              |                                     |                  |
|-----------|---------|-------------------------|--------------------|--|---|--------------------------------|-----------------------------------|--|---------------------------|--|--------------|--------------------------|----------------------------|--|--|----------------------------|--------------------------|--------------------|---------------------------------------|--|--------------|---------------------------------|----------------|----------------------------------|--|-------------------------------------|------------------|
| 2         | io.     |                         | Short Name De      | efinition  | Obligation /                              | Maximum Occurrence             | Data Type                         | Domain   | Name / Role Name          | Comments (for detailed   | Obligation / | Maximum                  | Data Discovery<br>Workflow | Name / Role Name                                     | Comments (for detailed   | Obligation /               | Maximum                  | Model<br>Discovery | Name / Role Name                      | Comments   | Obligation / | Maximum                         | QC Workflow    | Name / Role Name                 | Comments Obligation /  | Maximum                             | GLOS<br>Workflow |
|           |         |                         |                    |  | Condition                                 |                                |                                   |  |                           | description see (K/01/61)  | Condition    | Occurrence               | Number                     |  | description see (K/01/61)  | Condition                  | Occurrence               | Number             |                                       |  | Condition    | Occurrence                      | Number         |                                  | Condition  | Occurrence                          | Number           |
|           |         |                         |                    |  |   |                                |                                   |  |                           | vertical data (DIC_ADD_EPSG) -   |              |                          |                            |  | vertical data (DIC_ADD_EPSG) -   |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | (Note: not all entries in DIC_EPSG   |              |                          |                            |  | (Note: not all entries in DIC_EPSG                                       |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.51    | 107     | code                    | identCode alt      | phanumeric value identifying an<br>stance in the namespace                 | Mandatory                                 | 1                              | CharacterString                   | Free text  | Vertical Reference System | m are vertical data so additional<br>checks may be needed - or a sub-        | Mandatory    | 1                        | 8                          | Vertical Reference System                            | are vertical data so additional<br>checks may be needed - or a sub-      | Mandatory                  | 1                        | 9                  | Vertical Reference System             | Default = 'OD Newlyn'. Other value<br>available is 'OD Malin Head' | Mandatory    | 1                               | 9              |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | (Note: investigate EPSG dictionary   |              |                          |                            |  | (Note: investigate EPSG dictionary                                       |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | to see if Data Depth Units is<br>supplied within it)                         |              |                          |                            |  | to see if Data Depth Units is<br>supplied within it)                     |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.52    |         |                         |                    |  |   |                                |                                   |  | Data Depth Units          | Constrained by a dictionary of units<br>(DIC_ADD_UOMLENGTH)                  | Mandatory    | 1                        | 8                          | Data Depth Units                                     | Constrained by a dictionary of units<br>(DIC_ADD_UOMLENGTH)              | Mandatory                  | 1                        | 9                  | Units of Vertical reference<br>System | Default = 'metres'. Other value<br>available is 'kilometres'       | Mandatory    | 1                               | 9              |                                  |  |                                     |                  |
| 116.6 2   | 13      | MD_Identification       | ldent ur           | asic information required to<br>higuely identify a resource or             | Use obligation from                       | Use maximum<br>occurrence from | Aggregated Class<br>(MD_Metadata) | Lines 24-35.1  |                           |  |              |                          |                            | Quality (Quality Usage)                              |  | Mandatory                  | 1                        |                    | Purpose                               |  | Mandatory    | 1                               |                |                                  |  |                                     |                  |
|           |         |                         | re                 | sources  | Telefencing object                        | referencing object             | < <abstract>&gt;</abstract>       |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       | One mandater: Fold : 2 (antional)                                  |              |                                 |                |                                  |  |                                     |                  |
| 116.61 2  | :6      | purpose                 | idPurp th          | e resource(s) was developed  | Optional                                  | 1                              | CharacterString                   | Free text  |                           |  |              |                          |                            | Quality Usage  |  | Mandatory                  | 1                        | 9 & 12             | Quality Usage                         | continuation fields  | Mandatory    | 1                               | 9 & 12         |                                  |  |                                     |                  |
| 116.62    |         |                         |                    |  |   |                                |                                   |  | Quality (Approval Status  | This is not currently in the DGSM<br>ata Discovery Profile but is            | Mandatory    | 1                        |                            | Quality (Approval Status)                            | ,  | Mandatory                  | 1                        |                    | Approval Status                       |  | Mandatory    | 1                               |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | probably needed (KAH)  |              |                          |                            |  | 0  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | of the ISO19115:2003 (B.5.23)  |              |                          |                            |  | of the ISO19115:2003 (B.5.23)  | n                          |                          |                    |                                       | Constrained by an enhanced version                                 | n            |                                 |                |                                  |  |                                     |                  |
| 116.63 2  | 18      | status                  | idStatus st        | atus of the resource(s)  | Optional                                  | N                              | Class                             | MD_ProgressCode<br>< <codelist>&gt; (B.5.23)</codelist>        | IDSTATUS                  | Default='underDevelopment' - it  | Mandatory    | 1                        | 8 & 15                     | Approval Status                                      | Default='underDevelopment' - it  | Mandatory                  | 1                        | 9 & 15             | Approval Status                       | codelist (MD_ProgressCode)   | Mandatory    | 1                               | 9 & 15 & later |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | when model approved JLL 8 Apr  |              |                          |                            |  | when model approved JLL 8 Apr  |                            |                          |                    |                                       | 'ongoing'  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | pr                 | ovides a graphic that illustrates th                                       | e   |                                |                                   |  |                           | 2004   |              |                          |                            |  | 2004   |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.4 3   | I1 Role | e name: graphicOverview | graphOver re       | source(s) (should include a legen<br>r the graphic)                        | d Optional                                | N                              | Association                       | MD_BrowseGraphic (B.2.2.2)                                     |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.41    | 18      | MD_BrowseGraphic        | gr<br>BrowGraph of | aphic that provides an illustration<br>the dataset (should include a       | Use obligation from                       | Use maximum<br>occurrence from | Aggregated Class                  | Lines 49-51  |                           |  |              |                          |                            | Browse Graphic                                       |  | Optional                   | Many                     |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | le                 | gend for the graphic)<br>arme of the file that contains a                  | reterencing object                        | referencing object             | (MD_Identification)               |  |                           |  |              |                          |                            |  |  | -                          | -                        |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.42 4  | 19      | fileName                | bgFileName gr      | aphic that provides an illustration<br>the dataset                         | Mandatory                                 | 1                              | CharacterString                   | Free text  |                           |  |              |                          |                            | Data Density Graphic                                 | This should be a URI rather than fre                                     | e Mandatory                | 1                        | 17                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.43 5  | iO      | fileDescription         | bgFileDesc te      | xt description of the illustration   | Optional                                  | 1                              | CharacterString                   | Free text  |                           |  |              |                          |                            | (BGFILEDESC)   |  | Mandatory                  | 1                        | 17                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.44 5  | i1      | fileType                | bgFileType er      | coded Examples: CGM, EPS, GI<br>PEG, PBM, PS, TIFF, XWD                    | F. Optional                               | 1                              | CharacterString                   | Free text  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              | Many (there<br>can be many      |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  | If we keep this section, then we   |                            |                          |                    |                                       |  |              | access constraints.             |                |                                  |  |                                     |                  |
| 116.7 6   | 17      | MD_Constraints          | Consts a           | strictions on the access and use<br>resource or metadata                   | Use obligation from<br>referencing object | occurrence from                | (MD_Metadata and                  | Line 68  |                           |  |              |                          |                            | Access to Metadata                                   | defining constraints   | Mandatory                  | 1                        |                    | Access to Metadata                    | Removed from MidVal QC 3.1 - KAP                                   | Optional     | many use<br>constraints but     |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   | reterencing object             | MD_Identification)                |  |                           |  |              |                          |                            |  | geoIDS profile JLL 8 Apr 2004  |                            |                          |                    |                                       | 6 Apr 2004   |              | only one other<br>constraint on |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              | the<br>data(sub)set)            |                |                                  |  |                                     |                  |
|           |         |                         | ac                 | ccess constraints applied to assur   | e   |                                |                                   |  |                           |  |              |                          |                            |  | Constrained by the ISO 19115:2003  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.71 7  | '0      | accessConstraints       | accessConsts int   | e protection of privacy of<br>tellectual property, and any specia          | al Optional                               | N                              | Class                             | MD_RestrictionCode<br>< <codelist>&gt; (B.5.24)</codelist>     |                           |  |              |                          |                            | Access to Metadata (1/3)                             | (B.5.24) codelist. A dictionary<br>(DIC_RESTRICTCD) needs creating       | Mandatory                  | 1                        | 17                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | ot                 | strictions or limitations on<br>staining the resource or metadata          |   |                                |                                   |  |                           |  |              |                          |                            |  | for this   |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | 00                 | instraints applied to assure the   |   |                                |                                   |  |                           |  |              |                          |                            |  | Constrained by the ISO 19115:2003  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.72 7  | '1      | useConstraints          | useConsts pr       | otection of privacy or intellectual<br>operty, and any special restriction | is Optional                               | N                              | Class                             | MD_RestrictionCode<br>< <codelist>&gt; (B.5.24)</codelist>     |                           |  |              |                          |                            | Access to Metadata (2/3)                             | (B.5.24) codelist. A dictionary<br>(DIC RESTRICTCD) needs creating       | Mandatory                  | 1                        | 17                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | or<br>th           | limitations or warnings on using<br>e resource or metadata                 |   |                                |                                   |  |                           |  |              |                          |                            |  | for this   |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | 01                 | her restrictions and lenal   | C / accessConstraints                     | s                              |                                   |  |                           |  |              |                          |                            |  | Free text field.   | C / (1/3) or (2/3)         |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.73 7  | '2      | otherConstraints        | othConsts pr       | erequisites for accessing and<br>ing the resource or metadata              | or useConstraints<br>equal                | N                              | CharacterString                   | Free text  |                           |  |              |                          |                            | Access to Metadata (3/3)                             | It can only be populated if 'Use<br>Constraint' or 'Access Constraint'   | equal<br>*otherRestriction | 1                        | 17                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  | "otherRestrictions"?                      |                                |                                   |  |                           | This is not currently in the DGSM  |              |                          |                            |  | has a value of "other restrictions"<br>This is not currently in the DGSM | s"?                        |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | Data Discovery Profile but is needed<br>(KAH). But should it be "many rather |              |                          |                            |  | Model Discovery Profile but is<br>needed (KAH) But should it be          |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.8 1   |         | MD Metadata             | Metadata           | ot entity which defines metadata   | Mandatory                                 | 1                              | Class                             | Lines 2-22   | Data Set URI              | than "1"? (KAH/IFS)<br>Mximum Occurrence should definitly                    | Optional     | 1                        |                            | Data Set URI   | *many rather than *1*? (KAH/IFS)<br>Mximum occurrence should definitly   | Mandatory                  | 1                        |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | at                 | out a resource or resources  |   |                                |                                   |  |                           | be "1" JLL 8 Apr 2004<br>I think we decided to deal with this                |              |                          |                            |  | be "1" JLL 8 Apr 2004<br>I think we decided to deal with this            |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | as an on-line resource KAH 18 Jun<br>2004                                    |              |                          |                            |  | as an on-line resource KAH 18 Jun<br>2004                                |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.81 1  | 1.1     | dataSetURI              | dataSetURI of      | niformed Resource Identifier (URI<br>the dataset to which the metadat      | )<br>a Optional                           | 1                              | CharacterString                   | Free text  | (DATASETURI)              |  | Mandatory    | 1                        | 17                         | (DATASETURI)   |  | Mandatory                  | 1                        | 17                 |                                       |  |              |                                 |                | Export URL Address               | This is the URL for an "export" or more<br>commonly visualisation file (e.g. VRML) | Will be one or<br>more than one for | 19 & 20 & 21     |
|           |         |                         | ap                 | oplies   |   |                                | -                                 |  |                           | Use of collectiveTitle in the  |              |                          |                            |  | Use of collectiveTitle in the  |                            |                          |                    |                                       |  |              |                                 |                | (EXPORT_URL_ADDRESS)             | representation of a model Optional   | a model                             |                  |
| 116.82 3  | 159     | CI_Citation             | Citation st        | andardized resource reference  | Use<br>obligation/condition               | Use maximum<br>occurrence from | Class < <datatype>&gt;</datatype> | > Lines 360-363  | Citation                  | CI_Citation class enables us to<br>distinguish whether the citation is a     | Mandatory    | 1                        |                            | Citation   | CI_Citation class enables us to<br>distinguish whether the citation is a | Mandatory                  | 1                        |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  | object                                    | referencing object             |                                   |  |                           | BGS-geoIDS dataset, a DGSM<br>dataset and so on                              |              |                          |                            |  | BGS-geoIDS dataset, a DGSM<br>dataset and so on                          |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | Constrained by the ISO 19115:2003<br>(B.5.4) codelist                        |              | 1 (but maybe             |                            |  | Constrained by the ISO 19115:2003<br>(B.5.4) codelist                    | 1                          | 1 (but maybe             |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.821 3 | 168     | presentationForm        | presForm re        | ode in which the resource is<br>presented                                  | Optional                                  | Many                           | Class                             | CI_PresentationFormCode<br>< <codelist>&gt; (B.5.4)</codelist> | (PRESFORM)                | (DIC_PRESFORMCD) but<br>enhanced as needed                                   | Mandatory    | should be<br>extended to | 8                          | (PRESFORM)   | (DIC_PRESFORMCD) but<br>enhanced as neededMaximum                        | Mandatory                  | should be<br>extended to | 9                  |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           | Maximum occurrence should be "1"<br>JLL 8 Apr 2004                           |              | many)                    |                            |  | occurrence should be "1" JLL 8 Apr<br>2004                               |                            | many)                    |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | CC<br>N            | ommon title with holdings note<br>OTE title identifies elements of a       |   |                                |                                   |  |                           | A dictionary is needed to control the  |              |                          |                            |  | A dictionary is needed to control the                                    |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.83 3  | 171     | collectiveTitle         | collTitle se       | ries collectively, combined with<br>formation about what volumes are       | Optional                                  | 1                              | CharacterString                   | Free text  | (COLLTITLE)               | whether the dataset is BGS-geoIDS  | Mandatory    | 1                        | 8                          | (COLLTITLE)  | whether the dataset is BGS-geoIDS  | Mandatory                  | 1                        | 9                  |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | av                 | ailable at the source cited  |   |                                |                                   |  |                           | or DGSM or   |              |                          |                            |  | or DGSM or   |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         | 80 50000                | BOELLING AS        | spect of quantitative quality  | Use obligation from                       | Use maximum                    | Aggregated Class                  | 1000 400 407   | Data Quality              | DQ_LogicalConsistancy (#111) and   |              |                          |                            | Data Gualita   | DQ_LogicalConsistancy (#111) and   |                            |                          |                    | Data Quality                          |  |              |                                 |                |                                  |  |                                     |                  |
| 110.9     |         | DQ_Element              | inf                | formation  | referencing object                        | referencing object             | < <abstract>&gt;</abstract>       | Lines 100-107  | Data Quality              | DQ_QuantitativeResult (#133) rather  | Mandatory    | Many                     |                            | Data Quality   | DQ_QuantitativeResult (#133) rathe                                       | mandatory                  | wany                     |                    | Data Quality                          |  | Mandatory    | Many                            |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   | 3                              | 3                                 |  |                           | than DQ_ConformanceResult (#129)   |              |                          |                            |  | than DQ_ConformanceResult (#129  | 0                          |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.91 1  | 00      | nameOfMeasure           | measName na        | ame of the test applied to the data  | Optional                                  | Many                           | CharacterString                   | Free text  | (MEASNAME)                | values 'Spurious Data Check', 'Data  | Mandatory    | 1                        | 13                         | (MEASNAME)   | values 'Spurious Data Check', 'Data                                      | Mandatory                  | 1                        | 15                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                | -                                 |  |                           | Check', 'Fitness for Purpose'  |              |                          |                            |  | Check', 'Fitness for Purpose'  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  | Spurious Data Check       |  |              |                          |                            | Data Density (part),<br>Interpolation Modelling Cher | ck   |                            |                          |                    | Spurious Data Check                   |  |              |                                 |                |                                  |  |                                     |                  |
| 116.92    | 02      | measureDescription      | measDesc de        | scription of the measure   | Optional                                  | 1                              | CharacterString                   | Free text  | Description               |  | Mandatory    | '                        | 13                         | (part), Fitness for Purpose<br>(part)                |  | wandatory                  |                          | 15                 | Description                           |  | Mandatory    | ' '                             | 15             |                                  |  |                                     |                  |
|           |         |                         | va                 | lue (or set of values) obtained  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.93 1  | 07      | result                  | measResult         | easure or the outcome of   | Mandatory                                 | 2                              | Class                             | DQ_Result < <abstract>&gt;</abstract>                          |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | of                 | values) against a specified  | e   |                                |                                   | ,  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | ac<br>b            | e values or information about the  | ]   | lige maximum                   |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    | -                                     |  |              |                                 |                |                                  | <u> </u>   |                                     |                  |
| 116.94 1  | 33 D    | Q_QuantitativeResult    | QuanResult va      | lue(s) (or set of values) obtained<br>om applying a data quality           | Use obligation from<br>referencing object | occurrence from                | Specified Class<br>(DQ_Result)    | Lines 134-137  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | m                  | easure   |   | Contracting object             |                                   |  |                           | I don't know why but it seems to be  |              |                          |                            |  | I don't know why but it seems to be                                      |                            |                          |                    | -                                     |  |              |                                 |                |                                  |  |                                     |                  |
| 116.95 1  | 35      | valueUnit               | quanValUnit re     | lue unit for reporting a data qualit<br>sult                               | y Mandatory                               | 1                              | Class                             | UnitOfMeasure (B.4.3)  | (UOMNAME)                 | 'percent' in all the examples.<br>Implement as always being 'percent'        | Mandatory    | 1                        | 13                         | (UOMNAME)  | 'percent' in all the examples.<br>Implement as always being 'percent     | Mandatory                  | 1                        | 15                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         | -                  | pantitative value or values costoo   |   |                                |                                   |  |                           | (KAH)  |              |                          |                            | Data Density (part),                                 | (KAH)  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 116.96 1  | 37      | value                   | quanVal de         | etermined by the evaluation  | Mandatory                                 | Many                           | Class                             | Record (B.4.3)   | Spurious Data Check       |  | Mandatory    | 1                        | 13                         | (part), Fitness for Purpose                          | CK   | Mandatory                  | 1                        | 15                 | Spurious Data Check                   | Value is either 'Y' or 'N'   | Mandatory    | 1                               | 15             |                                  |  |                                     |                  |
| 117       |         |                         | pr                 |  |   |                                |                                   |  |                           | Non-ISO19115   |              |                          |                            | (part)   | Non-ISO19115   |                            |                          |                    |                                       | Non-ISO19115   |              |                                 |                |                                  | Non-ISO19115   |                                     |                  |
| 118       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | Data Format of Model                                 | The type of storage - e.g. Digital,                                      | Mandatory                  | Many                     |                    | Distribution format                   |  | Mandatory    | Many                            |                |                                  |  |                                     |                  |
| 119       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | (Storage Type)                                       | nardcopy. This should be controlled<br>by a dictionary                   | Mandatory                  | 1                        | 17                 |                                       |  |              |                                 |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | Data Format of Model (2/3)                           | E.g. Earthvision, GoCad, Paper.<br>This should be controlled by a        |                            |                          |                    |                                       |  |              |                                 |                | Software Product Code            | Denotes the type of model and is   |                                     |                  |
| 120       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | (Storage Name)                                       | dictionary - and rules (such as a<br>Hardcopy can't have a software      | Mandatory                  | 1                        | 17                 | Format                                |  | Mandatory    | 1                               | 12 & 15        | (SOFTWARE_PRODUCT_CODE)          | controlled by a dictionary Mandatory   | 1                                   | 19 & 20 & 21     |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | Data Format of Model (202                            | name of GoCad)   |                            |                          |                    |                                       |  |              |                                 |                | Product Version Number           | The version of the software indicated by   |                                     |                  |
| 121       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | (Storage Version)                                    | E.g. v7.3, NotApplicable   | Mandatory                  | 1                        | 17                 | Format Version                        |  | Mandatory    | 1                               | 12 & 15        | (PRODUCT_VERSION_NO)             | the Software product Code Mandatory  | 1                                   | 19 & 20 & 21     |
| 100       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                | Product Module Code              | This allows the use of a particular module   | Mag                                 | 10               |
| 122       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                | (PRODUCT_MODULE_CODE)            | Envisage within Vulcan) to be recorded   | many                                | 19 & 20 & 21     |
| 100       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                | Model Type Code (MODEL_TYPE_CODE | This flags a model as of being of one of   |                                     | 10 * 20 * *      |
| 123       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                |                                  | block model etc  | 1                                   | 10 & 20 & 21     |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                | Model Code (MODEL_CODE)          | Unique identifier for a model. This could  |                                     |                  |
| 124       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  |  |                            |                          |                    |                                       |  |              |                                 |                | GLOS: Model ID<br>GSF: Model ID  | be the same as the metadata identifier Mandatory<br>(ADD_DATAIDENT_ID)             | 1                                   | 19 & 20 & 21     |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | Quality (Quality)                                    |  |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     | 4                |
| 125       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | Validity)  | Although this is an in the   | Mandatory                  | 1                        |                    | Quality Scale Validity                |  | Mandatory    | 1                               |                |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  | 19115:2003, it should follow the   |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |
| 126       |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            | Quality scale validity maximu                        | number below the line in a vulgar  | Mandatory                  | 1                        | 15                 | Quality Scale Validity<br>Maximum     |  | Mandatory    | 1                               | 15             |                                  |  |                                     |                  |
|           |         |                         |                    |  |   |                                |                                   |  |                           |  |              |                          |                            |  | maximum>=Quality scale validity<br>minimum                               |                            |                          |                    |                                       |  |              |                                 |                |                                  |  |                                     |                  |

| 1   |       |                |  | ISO 19115:2003 |                    |                 |                   |                  | DGSM Data Discovery Profile |                      |                    |                              | DGSM Model Discovery Profile   | •            |            |                    |                            | MidVal QC (Version 3.1)   |              |            |             | DGSM Model   | Technical (GLOS) Profile (+Helen's spre   | adsheet fields)                             |                       |                    |
|-----|-------|----------------|--|----------------|--------------------|-----------------|-------------------|------------------|-----------------------------|----------------------|--------------------|------------------------------|--|--------------|------------|--------------------|----------------------------|---|--------------|------------|-------------|--|---|---|-----------------------|--------------------|
|     |       |                |  | Obligation /   |                    |                 |                   |                  | Comments (for detailed      | Obligation / Maximum | Data Discovery     |                              | Comments (for detailed   | Obligation / | Maximum    | Model<br>Discovery |                            |   | Obligation / | Maximum    | QC Workflow |  |   | Obligation /                                | Maximum               | GLOS               |
| 2   | No.   |                | Short Name Definition  | Condition      | Maximum Occurrence | Data Type       | Domain            | Name / Role Name | description see IR/01/61)   | Condition Occurrence | Workflow<br>Number | Name / Role Name             | description see IR/01/61)  | Condition    | Occurrence | Workflow           | Name / Role Name           | Comments  | Condition    | Occurrence | Number      | Name / Role Name   | Comments  | Condition                                   | Occurrence            | Workflow<br>Number |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              | Although this is not in ISO  |              |            | Number             |                            |   |              |            |             |  |   |   | 4                     |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              | 19115:2003, it should follow the                                     |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
| 127 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    | Ouslity ecole validity minim | format of denominator (#57) "the                                     | Mandatony    | 1          | 15                 | Quality Scale Validity     |   | Mandatony    | 4          | 15          |  |   |   |                       |                    |
| 127 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    | Quality scale valuity minin  | fraction". Also Quality scale validity                               | manuatory    |            |                    | Minimum                    |   | manuatory    | 1.1        | 10          |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              | maximum>=Quality scale validity                                      |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
|     |       |                |  | -              |                    |                 |                   |                  |                             |                      |                    |                              | Although not in ISO 19115:2003,                                      |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              | these can be dealt with by the                                       |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
| 128 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    | Vertical Extent              | structure available in the standard                                  | Optional     | Many       |                    | Vertical Extents (General) |   | Optional     | Many       |             |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              | structure is over the top.   |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
|     |       |                | indication of whether the bounding                                       | 1              |                    |                 | 0 exclusion       |                  |                             |                      |                    |                              | 0 evolucion  |              |            |                    |                            | Default = '1'.  |              |            |             |  |   |   |                       |                    |
| 129 | 340   | extentTypeCode | exTypeCode polygon encompasses an area<br>covered by the data or an area | Optional       | 1                  | Boolean         | 1 – inclusion     |                  |                             |                      |                    | Extent Type                  | 1 - inclusion  | Mandatory    | 1          | 9 & 12             | Extent Type                | 0 - exclusion   | Mandatory    | 1          | 9 & 12      |  |   |   |                       |                    |
|     |       |                | where data is not present  |                |                    |                 | OL OTHER DELETION |                  |                             |                      |                    |                              | This should be dealers the bases of                                  |              |            |                    |                            | 1 – Inclusion   |              |            |             |  |   |   |                       |                    |
| 130 | 206   | authority      | identAuth maintenance of the namespace                                   | Optional       | 1                  | Class           | (B.3.2)           |                  |                             |                      |                    | Dictionary Name              | in the Citation Class  | Mandatory    | 1          | 9 & 12             | (IDENTAUTH)                | Default = 'MidVal Extent Dictionary'                            | Mandatory    | 1          | 9 & 12      |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | Controlled by a codelist containing                             |              |            |             |  |   |   |                       |                    |
|     |       |                | alphanumeric value identifying an  |                |                    |                 |                   |                  |                             |                      |                    |                              | Code for Vertical extent- e.g.                                       |              |            |                    |                            | things like 'drift deposits', 'moho'<br>used within DGSM        |              |            |             |  |   |   |                       |                    |
| 131 | 207   | code           | identCode instance in the namespace                                      | Mandatory      | 1                  | CharacterString | Free text         |                  |                             |                      |                    | Vertical Extent              | Superficial Deposits, Moderate,<br>Deep - controlled by a dictionary | Mandatory    | 1          | 9 & 12             | Vertical Extent            | Note there is another dictionary used                           | Mandatory    | 1          | 9 & 12      |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              | beep controled by a dealonary  |              |            |                    |                            | in the DGSM as well:  |              |            |             |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | This could well be implemented                                  |              |            |             |  |   |   |                       |                    |
| 132 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Obsolescence Details       | within the main scheme as a dataset                             | Optional     | 1          |             |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | 'obsolescence'  |              |            |             |  |   |   |                       |                    |
| 133 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Reasons for Obsolescence   |   | Mandatory    | 1          | Later       |  |   |   |                       |                    |
| 134 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Date of Obsolescence       | Default = 'day' Constrained by                                  | Mandatory    | 1          | Later       |  |   |   |                       |                    |
| 135 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Precision of Date          | dictionary consisting of 'minute',                              | Mandatory    | 1          | Later       |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | 'hour', 'day', 'month', 'year'<br>Default = '='. Constrained by |              |            |             |  |   |   |                       |                    |
| 136 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Date Relation              | dictionary consisting of '>', '<', '='                          | Mandatory    | 1          | Later       |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | These are not to do with the data                               |              |            |             |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | themselves but more "pure" QC.                                  |              |            |             |  |   |   |                       |                    |
| 137 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Issue Dates and Issuer     | hopeful fantasy? Yes, this is needed                            | Optional     | Many       |             |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | but only in the QC (with enhanced                               |              |            |             |  |   |   |                       |                    |
| 467 |       |                |  |                | -                  |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Data di                    | instructions) KAH 6 Apr 2004                                    | Manda        |            | 1           |  |   |   |                       |                    |
| 138 | + +   |                |  |                | ++                 |                 |                   |                  |                             | <u> </u>             |                    |                              |  |              |            |                    | Date of Issue              | Default = 'day', Constrained by                                 | Mandatory    | 1          | Later       |  |   |   | +                     |                    |
| 139 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Precision of Date          | dictionary consisting of 'minute',                              | Mandatory    | 1          | Later       |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            | 'hour', 'day', 'month', 'year'<br>Default = '=' Constrained by  |              |            |             |  |   | _   | +                     |                    |
| 140 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Date Relation              | dictionary consisting of '>', '<', '='                          | Mandatory    | 1          | Later       |  |   |   |                       |                    |
| 141 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Date Type                  | Default = 'issue'   | Mandatory    | 1          | Later       |  |   |   |                       |                    |
| 142 |       |                |  |                |                    |                 |                   | -                |                             |                      |                    |                              |  |              |            |                    | Organisation               |   | Optional     | 1          | Later       |  |   |   | +                     |                    |
| 144 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Position                   |   | Optional     | 1          | Later       |  |   |   |                       |                    |
| 145 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Telephone No<br>EAX No     |   | Optional     | 1          | Later       |  |   |   |                       |                    |
| 147 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Address                    |   | Optional     | 1          | Later       |  |   |   |                       |                    |
| 148 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | City<br>Admin Area         |   | Optional     | 1          | Later       |  |   |   |                       |                    |
| 150 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Postcode                   |   | Optional     | 1          | Later       |  |   |   |                       |                    |
| 151 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Country                    |   | Optional     | 1          | Later       |  |   |   |                       |                    |
| 152 |       |                |  | -              |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    | Email                      |   | Mandalory    |            | Later       |  | This holds a user defined text string   | -   |                       |                    |
| 153 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Model Export Code  | simply to allow more than one export for  | of a (mandatory if an                       | Many 1                | 19 & 20 & 21       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | (MODEL_EXPORT_CODE)  | given model to be recorded in the<br>MODEL_EXPORT table                             | export is entered                           | ŋ                     |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Evnort Reference Code  | Can't currently recall what this field is fi  | ~   |                       |                    |
| 154 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | (EXPORT_REFERENCE_CODE)  | currently unpopulated   | 11 /  | 15                    | 19 & 20 & 21       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  |   | -   |                       |                    |
| 155 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | EXPORT BOUNDING SRS CODE)  |   |   | 15                    | 19 & 20 & 21       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | GLOS: GLOS [filename] and GSE: Fi   | de  |                       |                    |
| 156 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | File and Path Related Fields   | Name and GSF: New File Name fit   | Mandatory                                   | Many                  |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | somewhere in here but could also b  | 4   |                       |                    |
| 157 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Model Location (MODEL_LOCATION)  | Root folder for Model in GLOS file store  | a Mandatory                                 | 1 15                  | 19 & 20 & 21       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
| 450 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Model Subdirectory Location  | Subdirectory for model files from a   | Out and                                     |                       |                    |
| 158 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | (MODEL_SUBDIR_LOCATION)  | application   | Optional                                    | Many 15               | 19 & 20 & 21       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
| 150 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | File entry number  | Sequential number for a file withina  | Mandatory (if file                          | IS Manuel 1           | 19 8 20 8 21       |
| 105 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | R)   | model. Autopupulated from sequence  | are entered)                                | Widity                |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Subdirectory Location  | Sub folder location below GLOS root   | Mandatory (if file                          | 49                    |                    |
| 160 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | OBJECT_SUBDIR_STORE_LOCATIO  | N) folder of model files  | are entered)                                | Many 19               | 19 & 20 & 21       |
|     | + +   |                |  |                |                    |                 |                   | -                |                             |                      |                    |                              |  | 1            |            |                    |                            |   |              |            |             |  |   | -   | -                     |                    |
| 161 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | File Name (OBJECT STORE FILENAL  | The name of each file held in GLOS  | Mandatory (if file                          | A Many                | 19 8 20 8 24       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | ULLET OF ONE THERE AN  | (without extension)   | are entered)                                | "                     |                    |
|     |       |                |  |                |                    |                 |                   | -                |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Out of the second  | Output the Day of the State   | -   |                       |                    |
| 162 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Generic file extension<br>(OBJECT_STORE_GENERIC_FILE_E)                        | Contains the file extension for any files   | nat Optional                                | Many                  | 19 & 20 & 21       |
| 1   |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | N)   | e.gdat .txt - Dictionary constrained  |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Product File Extension   | The extension for any files which are o   | 1   |                       |                    |
| 163 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | OBJECT_STORE_PRODUCT_FILE_E  | XT software specific format. E.g2grd .fac   | .es Optional                                | Many 1'               | 19 & 20 & 21       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | N)   | etc - Dictionary constrained  |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | This allows an optional description to h  | e   |                       |                    |
| 164 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | File Description   | recorded for a file (though in many cas   | 3S Optional                                 | Many 1                | 19 & 20 & 21       |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | (UBJECT_DESCRIPTION)   | a separate dictionary controlled extens   | an  |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | , a second and type of the soundernity)   |   |                       |                    |
| 165 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Export Sub directory location  | Physical Subdirectory containing  | Optional                                    | Many 1                | 19 & 20 & 21       |
| -   |       |                |  |                | _                  |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | (EXPORT_OBJECT_STORE_SUBDIR)   | export/visualisation files  | _   |                       |                    |
| 166 |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Export Filename  | Filename of the export file   | Optional                                    | Many 1                | 19 & 20 & 21       |
|     |       |                |  |                | _                  |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | EXPORT_OBJECT_STORE_FILENAN  | <b>-</b> 7  | _   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            | n           | Note regarding file/path fields in GI O  | S technical metadata:   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | 14- 4- 100 - 4 1  |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | in mapping the technical metadata fie<br>related classes, for example the Data | nos to the ISO standard there seemed to<br>SetURI - a URL for information about the | e whole dataset ar                          | nd a physical file    |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | conatining the metadata.   |   | , dii                                       |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | These had 1:1 cardinality, and none  | ruly covered the concept of the data or   | unsisting of a numb                         | per of individual but |                    |
| -   |       |                |  |                | -                  |                 |                   | 1                |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | related files as in the GLOS.  |   | 5 Hamb                                      |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Further the GLOS file information is a   | plit into various fields as shown on the  | left. The root locar                        | tion in the GLOS is   |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | held separately from the sub folder p  | ath to a file, and the file extension is als  | o held in a separat                         | re field constrained  |                    |
|     |       |                |  |                |                    |                 |                   | -                |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | by a dictionary.   |   |   |                       |                    |
|     | + $+$ |                |  |                | +                  |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | The GLOS technical metadata inform   | ation is held in this way because for the   | GLOS it also has r                          | a configuration       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | function (for example, interrugated by   | applications to assist data manageme  | it checks etc) as w                         | vell as a descriptive |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  | -            |            |                    |                            |   |              |            |             | appropriate views to combine the pat   | h file and extension information into the   | ave been) assimila<br>a usual file/path str | ring.                 |                    |
|     |       |                |  |                |                    |                 |                   | -                |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  |   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   | -                |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | 1   |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | GLOS: Discovery, Technical. File   |   |   | +                     |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | GSF:Loaded to GSF, Surface attribution   | These are QC fields, in part derivable<br>from the metadata but not part of a       |   |                       |                    |
|     |       |                |  |                | -                  |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | Completed  | This is made up of a code for the time  | of  | +                     |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | surface (e.g. RH=rockhead,  |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             | GSF: Code  | TOPO=topographic) from  |   |                       |                    |
|     |       |                |  |                |                    |                 |                   |                  |                             |                      |                    |                              |  |              |            |                    |                            |   |              |            |             |  | sequence.   |   |                       |                    |