

<i>Data Set Name</i>	dcmerge6.hdr
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

Section 1. Identification Information

CITATION

<i>Originator</i>	Minnesota Geological Survey
<i>Title</i>	total field aeromagnetic data for entire Duluth Complex
<i>Unique Identifier</i>	dcmerge6.hdr
<i>Abstract</i>	Aeromagnetic anomaly, gridded, total field data

<i>Purpose</i>	To assist in geologic mapping of the Duluth Complex
<i>Time Period of Content</i>	Data acquired 1979-1981
<i>Currentness Reference</i>	latest gridding spring 1999
<i>Progress</i>	complete

SPATIAL DOMAIN

<i>Maintenance and Update Frequency</i>	none planned
<i>Spatial Extent of Data</i>	Entire Duluth complex and environs
<i>West Bounding Coordinate</i>	-92.5818553
<i>East Bounding Coordinate</i>	-89.4832707
<i>North Bounding Coordinate</i>	48.2218993
<i>South Bounding Coordinate</i>	46.1323153

KEYWORDS

<i>Place Keywords</i>	Duluth, arrowhead, Lake Superior, north shore, eastern Mesabi Range
<i>Theme Keywords</i>	aeromag anomaly
<i>Theme Keyword Thesaurus</i>	

CONSTRAINTS

Data Set Name dcmerge6.hdr
Date 8/29/2000
Metadata Entered By Val W. Chandler

Access Constraints Readable by Potential field software of the USGS (version 2.2 ofr-97-725) and GEOSOFT software, winzip

Use Constraints Credit Given to Minnesota Geological Survey and Val W. Chandler

OTHER

Contact Person Val W. Chandler

Contact Organization Minnesota Geological Survey

Contact Person Position Geophysicist

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Contact City St. Paul

Contact State or Province MN

Contact Postal Code 55114

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Contact Fax Phone 612-627-4778

Contact E-mail Address chand004@tc.umn.edu

Browse Graphic

Associated Data Sets aeromagnetic profile data available through DNR Division of Minerals (DNR data deli)

Section 2. Data Quality Information

Attribute Accuracy approx 50 meters

Logical Consistency grid

Completeness complete to date

Horizontal Positional Accuracy approx 50 meters

Vertical Positional Accuracy approx 2 nanoTeslas

<i>Data Set Name</i>	dcmerge6.hdr
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

<i>Lineage</i>	Data for northeastern Minnesota originally gridded from profile data by Geometrics 1979-81 using minimum curvature, regridded into a state-wide composote Lambert grid 1990-91 by Patterson Grant Watson Ltd. using proprietary software. Additional data composited and regridded to utm from Lake Superior survey (US Geological Survey and Geological Survey ofCanada;GSC), northwestern Wisconsin (U. S. Geological Survey) and Canada (GSC) using potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)
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<i>Source Scale Denominator</i>	200000
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Section 3. Spatial Data Organization Information

<i>Native Data Set Environment</i>	potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)
<i>Geographic Reference for Tabular Data</i>	UTM Coordinates
<i>Spatial Object Type</i>	raster
<i>Vendor Specific Object Types</i>	cell

Tiling Scheme

Section 4. Spatial Reference Information

<i>Horizontal Coordinate Scheme</i>	UTM
<i>Ellipsoid</i>	GRS 1980
<i>Horizontal Datum</i>	NAD27
<i>Horizontal Units</i>	meters
<i>Distance Resolution</i>	approx 50 meters
<i>Altitude Datum</i>	not applicable
<i>Altitude Units</i>	
<i>Depth Datum</i>	
<i>Depth Units</i>	
<i>Cell Width</i>	213.36 meters
<i>Cell Height</i>	213.36 meters

IF GEOGRAPHIC

Latitude Resolution

Longitude Resolution

<i>Data Set Name</i>	dcmerge6.hdr
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

IF UTM

<i>UTM Zone Number</i>	15 (expanded)
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UTM Coordinate Offsets or Adjustments

IF STATE PLANE

SPCS Zone Identifier

SPCS Coordinate Offsets or Adjustments

IF COUNTY COORDINATES

County Zone ID

Co Coord offset

IF USER SPECIFIED PROJECTION

Map Projection Name

Map Projection Parameters

IF OTHER

Other Coordinate System's Definition

Section 5. Entity and Attribute Information

<i>Entity and Attribute Overview</i>	Aeromagnetic flight line data from Minnesota was merged, gridded (Lambert), reprojected(UTM), and regridded. It was then composited with aeromagnetic data grids from adjacent parts of Lake Superior, Wisconsin, Michigan and Ontario using USGS potential field software (version 2.2, ofr -9-725)
<i>Entity and Attribute Detailed Citation</i>	see Chandler, V.W, Aeromagnetic anomaly map of Minnesota, MGS State Map S-17, scale 1:500,000.

Section 6. Distribution Information

<i>Publisher</i>	Minnesota Geological Survey
<i>Publication Date</i>	08/29/00
<i>Online Linkage</i>	FTP from ftp://156.98.153.1/pub2/dulgrmag
<i>Distributor Contact Person</i>	Val Chandler
<i>Distributor Organization</i>	Minnesota Geological Survey

<i>Data Set Name</i>	dcmerge6.hdr
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

<i>Distributor Position</i>	Geophysicist
<i>Distributor Street address</i>	2642 University Avenue
<i>Distributor City</i>	St. Paul
<i>Distributor State or Province</i>	MN
<i>Distributor Postal Code</i>	55114
<i>Distributor Voice Phone</i>	612-627-4780 ex. 203
<i>Distributor Fax Phone</i>	612-627-4778
<i>Distributor E-mail Address</i>	chand004@tc.umn.edu
<i>Distributors Data Set Identifier</i>	
<i>Distribution Liability</i>	
<i>Transfer Format Name</i>	ftp of a .zip file
<i>Transfer Format Version Number</i>	windows operating systems-FTP software-WinZip software
<i>Transfer Size</i>	22.4 mb
<i>Ordering Instructions</i>	Contact Val Chandler, Rich Lively, or Lori Day (Map Sales)

Section 7. Metadata Reference Information

<i>Metadata Date</i>	08/29/00
<i>Metadata Contact Person</i>	Val Chandler
<i>Metadata Contact Organization</i>	Minnesota Geological Survey
<i>Metadata Contact Position</i>	Geophysicist
<i>Metadata Contact Street Address</i>	2642 University Avenue
<i>Metadata Contact City</i>	St. Paul
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<i>Metadata Contact Fax Phone</i>	612-627-4778
<i>Metadata Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Metadata Standard Name</i>	Minnesota Geographic Metadata Guidelines
<i>Metadata Standard Version</i>	v. 1.1
<i>Metadata Standard Online Linkage</i>	http://www.lmic.state.mn.us/gc/stds/metadata.htm

Data Set Name

dcmerge6.hdr

Date

8/29/2000

Metadata Entered By

Val W. Chandler

<i>Data Set Name</i>	dcmrtp.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

Section 1. Identification Information

CITATION

<i>Originator</i>	Minnesota Geological Survey
<i>Title</i>	Merged aeromagnetic data reduced to pole
<i>Unique Identifier</i>	dcmrtp.usg
<i>Abstract</i>	Merged aeromagnetic data reduced to vertical polarization

<i>Purpose</i>	To assist in geologic mapping of the Duluth Complex
<i>Time Period of Content</i>	Data acquired 1979-1981
<i>Currentness Reference</i>	latest gridding and processing spring 1999
<i>Progress</i>	complete

SPATIAL DOMAIN

<i>Maintenance and Update Frequency</i>	none planned
<i>Spatial Extent of Data</i>	Entire Duluth complex and environs
<i>West Bounding Coordinate</i>	-92.5818553
<i>East Bounding Coordinate</i>	-89.4832707
<i>North Bounding Coordinate</i>	48.2218993
<i>South Bounding Coordinate</i>	46.1323153

KEYWORDS

<i>Place Keywords</i>	Duluth, arrowhead, Lake Superior, north shore, eastern Mesabi Range
<i>Theme Keywords</i>	aeromag anomaly
<i>Theme Keyword Thesaurus</i>	

CONSTRAINTS

Data Set Name dcmrtp.usg
Date 8/29/2000
Metadata Entered By Val W. Chandler

Access Constraints Readable by Potential field software of the USGS (version 2.2 ofr-97-725) and GEOSOFT software, winzip

Use Constraints Credit Given to Minnesota Geological Survey and Val W. Chandler

OTHER

Contact Person Val W. Chandler

Contact Organization Minnesota Geological Survey

Contact Person Position Geophysicist

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Contact City St. Paul

Contact State or Province MN

Contact Postal Code 55114

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Browse Graphic

Associated Data Sets aeromagnetic profile data available through DNR Division of Minerals (DNR data deli)

Section 2. Data Quality Information

Attribute Accuracy approx 50 meters

Logical Consistency grid

Completeness complete to date

Horizontal Positional Accuracy approx 50 meters

Vertical Positional Accuracy approx 2 nanoTeslas

<i>Data Set Name</i>	dcmrtp.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

Lineage Data for northeastern Minnesota originally gridded from profile data by Geometrics 1979-81 using minimum curvature, regridded into a state-wide composote Lambert grid 1990-91 by Patterson Grant Watson Ltd. using proprietary software. Additional data composited and regridded to utm from Lake Superior survey (US Geological Survey and Geological Survey ofCanada;GSC), northwestern Wisconsin (U. S. Geological Survey) and Canada (GSC) using potential field software of the US Geological Survey (Version 2.2, ofr-97-725). Reduction to pole also used USGS potential field software, assumung a polarization dec/inc=295d/50d and an earth's filed dec/inc=2d/76d.

Source Scale Denominator 200000

Section 3. Spatial Data Organization Information

<i>Native Data Set Environment</i>	potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)
<i>Geographic Reference for Tabular Data</i>	UTM Coordinates
<i>Spatial Object Type</i>	raster
<i>Vendor Specific Object Types</i>	cell

Tiling Scheme

Section 4. Spatial Reference Information

<i>Horizontal Coordinate Scheme</i>	UTM
<i>Ellipsoid</i>	GRS 1980
<i>Horizontal Datum</i>	NAD27
<i>Horizontal Units</i>	meters
<i>Distance Resolution</i>	approx 50 meters
<i>Altitude Datum</i>	not applicable
<i>Altitude Units</i>	
<i>Depth Datum</i>	
<i>Depth Units</i>	
<i>Cell Width</i>	213.36 meters
<i>Cell Height</i>	213.36 meters

IF GEOGRAPHIC

Latitude Resolution

Longitude Resolution

<i>Data Set Name</i>	dcmrtp.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

IF UTM

UTM Zone Number 15 (expanded)

UTM Coordinate Offsets or Adjustments

IF STATE PLANE

SPCS Zone Identifier

SPCS Coordinate Offsets or Adjustments

IF COUNTY COORDINATES

County Zone ID

Co Coord offset

IF USER SPECIFIED PROJECTION

Map Projection Name

Map Projection Parameters

IF OTHER

Other Coordinate System's Definition

Section 5. Entity and Attribute Information

Entity and Attribute Overview Aeromagnetic flight line data from Minnesota was merged, gridded (Lambert), reprojected(UTM), and regridded. It was then composited with aeromagnetic data grids from adjacent parts of Lake Superior, Wisconsin, Michigan and Ontario using USGS potential field software (version 2.2, ofr -9-725). Reception to pole was calculated using the same USGS software.

Entity and Attribute Detailed Citation see Chandler, V.W, Aeromagnetic anomaly map of Minnesota, MGS State Map S-17, scale 1:500,000.

Section 6. Distribution Information

<i>Publisher</i>	Minnesota Geological Survey
<i>Publication Date</i>	08/29/00
<i>Online Linkage</i>	FTP from ftp://156.98.153.1/pub2/dulgrmag
<i>Distributor Contact Person</i>	Val Chandler
<i>Distributor Organization</i>	Minnesota Geological Survey

<i>Data Set Name</i>	dcmrtp.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

<i>Distributor Position</i>	Geophysicist
<i>Distributor Street address</i>	2642 University Avenue
<i>Distributor City</i>	St. Paul
<i>Distributor State or Province</i>	MN
<i>Distributor Postal Code</i>	55114
<i>Distributor Voice Phone</i>	612-627-4780 ex. 203
<i>Distributor Fax Phone</i>	612-627-4778
<i>Distributor E-mail Address</i>	chand004@tc.umn.edu
<i>Distributors Data Set Identifier</i>	
<i>Distribution Liability</i>	
<i>Transfer Format Name</i>	ftp of a .zip file
<i>Transfer Format Version Number</i>	windows operating systems-FTP software-WinZip software
<i>Transfer Size</i>	22.4 mb
<i>Ordering Instructions</i>	Contact Val Chandler, Rich Lively, or Lori Day (Map Sales)

Section 7. Metadata Reference Information

<i>Metadata Date</i>	08/29/00
<i>Metadata Contact Person</i>	Val Chandler
<i>Metadata Contact Organization</i>	Minnesota Geological Survey
<i>Metadata Contact Position</i>	Geophysicist
<i>Metadata Contact Street Address</i>	2642 University Avenue
<i>Metadata Contact City</i>	St. Paul
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<i>Metadata Contact Fax Phone</i>	612-627-4778
<i>Metadata Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Metadata Standard Name</i>	Minnesota Geographic Metadata Guidelines
<i>Metadata Standard Version</i>	v. 1.1
<i>Metadata Standard Online Linkage</i>	http://www.lmic.state.mn.us/gc/stds/metadata.htm

Data Set Name

dcmrtp.usg

Date

8/29/2000

Metadata Entered By

Val W. Chandler

<i>Data Set Name</i>	dcmrp1vd.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

Section 1. Identification Information

CITATION

<i>Originator</i>	Minnesota Geological Survey
<i>Title</i>	First vertical derivative of merged aeromagnetic data reduced to pole
<i>Unique Identifier</i>	dcmrp1vd.usg
<i>Abstract</i>	First vertical derivative of merged aeromagnetic data reduced to vertical polarization

<i>Purpose</i>	To assist in geologic mapping of the Duluth Complex
<i>Time Period of Content</i>	Data acquired 1979-1981
<i>Currentness Reference</i>	latest gridding and processing spring 1999
<i>Progress</i>	complete

SPATIAL DOMAIN

<i>Maintenance and Update Frequency</i>	none planned
<i>Spatial Extent of Data</i>	Entire Duluth complex and environs
<i>West Bounding Coordinate</i>	-92.5818553
<i>East Bounding Coordinate</i>	-89.4832707
<i>North Bounding Coordinate</i>	48.2218993
<i>South Bounding Coordinate</i>	46.1323153

KEYWORDS

<i>Place Keywords</i>	Duluth, arrowhead, Lake Superior, north shore, eastern Mesabi Range
<i>Theme Keywords</i>	aeromag anomaly, derivaive
<i>Theme Keyword Thesaurus</i>	

CONSTRAINTS

Data Set Name dcmrp1vd.usg
Date 8/29/2000
Metadata Entered By Val W. Chandler

Access Constraints Readable by Potential field software of the USGS (version 2.2 ofr-97-725) and GEOSOFT software, winzip

Use Constraints Credit Given to Minnesota Geological Survey and Val W. Chandler

OTHER

Contact Person Val W. Chandler

Contact Organization Minnesota Geological Survey

Contact Person Position Geophysicist

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Contact Fax Phone 612-627-4778

Contact E-mail Address chand004@tc.umn.edu

Browse Graphic

Associated Data Sets aeromagnetic profile data available through DNR Division of Minerals (DNR data deli)

Section 2. Data Quality Information

Attribute Accuracy approx 50 meters

Logical Consistency grid

Completeness complete to date

Horizontal Positional Accuracy approx 50 meters

Vertical Positional Accuracy approx 10 nanoTeslas/km

<i>Data Set Name</i>	dcmrp1vd.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

Lineage Data for northeastern Minnesota originally gridded from profile data by Geometrics 1979-81 using minimum curvature, regridded into a state-wide composote Lambert grid 1990-91 by Patterson Grant Watson Ltd. using proprietary software. Additional data composited and regridded to utm from Lake Superior survey (US Geological Survey and Geological Survey ofCanada;GSC), northwestern Wisconsin (U. S. Geological Survey) and Canada (GSC) using potential field software of the US Geological Survey (Version 2.2, ofr-97-725). Reduction to pole and derivative calculation used the same USGS potential field software, assuming a polarization dec/inc=295d/50d and an earth's filed dec/inc=2d/76d.

Source Scale Denominator 200000

Section 3. Spatial Data Organization Information

Native Data Set Environment potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)

Geographic Reference for Tabular Data UTM Coordinates

Spatial Object Type raster

Vendor Specific Object Types cell

Tiling Scheme

Section 4. Spatial Reference Information

Horizontal Coordinate Scheme UTM

Ellipsoid GRS 1980

Horizontal Datum NAD27

Horizontal Units meters

Distance Resolution approx 50 meters

Altitude Datum not applicable

Altitude Units

Depth Datum

Depth Units

Cell Width 213.36 meters

Cell Height 213.36 meters

IF GEOGRAPHIC

Latitude Resolution

Longitude Resolution

<i>Data Set Name</i>	dcmrp1vd.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

IF UTM

UTM Zone Number 15 (expanded)

UTM Coordinate Offsets or Adjustments

IF STATE PLANE

SPCS Zone Identifier

SPCS Coordinate Offsets or Adjustments

IF COUNTY COORDINATES

County Zone ID

Co Coord offset

IF USER SPECIFIED PROJECTION

Map Projection Name

Map Projection Parameters

IF OTHER

Other Coordinate System's Definition

Section 5. Entity and Attribute Information

<i>Entity and Attribute Overview</i>	Aeromagnetic flight line data from Minnesota was merged, gridded (Lambert), reprojected(UTM), and regridded. It was then composited with aeromagnetic data grids from adjacent parts of Lake Superior, Wisconsin, Michigan and Ontario using USGS potential field software (version 2.2, ofr -9-725). Reception to pole and derivative was calculated using the same USGS
<i>Entity and Attribute Detailed Citation</i>	see Chandler, V.W, Aeromagnetic anomaly map of Minnesota, MGS State Map S-17, scale 1:500,000.

Section 6. Distribution Information

<i>Publisher</i>	Minnesota Geological Survey
<i>Publication Date</i>	08/29/00
<i>Online Linkage</i>	FTP from ftp://156.98.153.1/pub2/dulgrmag
<i>Distributor Contact Person</i>	Val Chandler
<i>Distributor Organization</i>	Minnesota Geological Survey

<i>Data Set Name</i>	dcmrp1vd.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

<i>Distributor Position</i>	Geophysicist
<i>Distributor Street address</i>	2642 University Avenue
<i>Distributor City</i>	St. Paul
<i>Distributor State or Province</i>	MN
<i>Distributor Postal Code</i>	55114
<i>Distributor Voice Phone</i>	612-627-4780 ex. 203
<i>Distributor Fax Phone</i>	612-627-4778
<i>Distributor E-mail Address</i>	chand004@tc.umn.edu
<i>Distributors Data Set Identifier</i>	
<i>Distribution Liability</i>	
<i>Transfer Format Name</i>	ftp of a .zip file
<i>Transfer Format Version Number</i>	windows operating systems-FTP software-WinZip software
<i>Transfer Size</i>	22.4 mb
<i>Ordering Instructions</i>	Contact Val Chandler, Rich Lively, or Lori Day (Map Sales)

Section 7. Metadata Reference Information

<i>Metadata Date</i>	08/29/00
<i>Metadata Contact Person</i>	Val Chandler
<i>Metadata Contact Organization</i>	Minnesota Geological Survey
<i>Metadata Contact Position</i>	Geophysicist
<i>Metadata Contact Street Address</i>	2642 University Avenue
<i>Metadata Contact City</i>	St. Paul
<i>Metadata Contact State or Province</i>	MN
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<i>Metadata Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Metadata Standard Name</i>	Minnesota Geographic Metadata Guidelines
<i>Metadata Standard Version</i>	v. 1.1
<i>Metadata Standard Online Linkage</i>	http://www.lmic.state.mn.us/gc/stds/metadata.htm

Data Set Name

dcmrp1vd.usg

Date

8/29/2000

Metadata Entered By

Val W. Chandler

<i>Data Set Name</i>	dcmrp2vd.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

Section 1. Identification Information

CITATION

<i>Originator</i>	Minnesota Geological Survey
<i>Title</i>	Second vertical derivative of merged aeromagnetic data reduced to pole
<i>Unique Identifier</i>	dcmrp2vd.usg
<i>Abstract</i>	Second vertical derivative of merged aeromagnetic data reduced to vertical polarization

<i>Purpose</i>	To assist in geologic mapping of the Duluth Complex
<i>Time Period of Content</i>	Data acquired 1979-1981
<i>Currentness Reference</i>	latest gridding and processing spring 1999
<i>Progress</i>	complete

SPATIAL DOMAIN

<i>Maintenance and Update Frequency</i>	none planned
<i>Spatial Extent of Data</i>	Entire Duluth complex and environs
<i>West Bounding Coordinate</i>	-92.5818553
<i>East Bounding Coordinate</i>	-89.4832707
<i>North Bounding Coordinate</i>	48.2218993
<i>South Bounding Coordinate</i>	46.1323153

KEYWORDS

<i>Place Keywords</i>	Duluth, arrowhead, Lake Superior, north shore, eastern Mesabi Range
<i>Theme Keywords</i>	aeromag anomaly, derivaive
<i>Theme Keyword Thesaurus</i>	

CONSTRAINTS

Data Set Name dcmrp2vd.usg
Date 8/29/2000
Metadata Entered By Val W. Chandler

Access Constraints Readable by Potential field software of the USGS (version 2.2 ofr-97-725) and GEOSOFT software, winzip

Use Constraints Credit Given to Minnesota Geological Survey and Val W. Chandler

OTHER

Contact Person Val W. Chandler

Contact Organization Minnesota Geological Survey

Contact Person Position Geophysicist

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Browse Graphic

Associated Data Sets aeromagnetic profile data available through DNR Division of Minerals (DNR data deli)

Section 2. Data Quality Information

Attribute Accuracy approx 50 meters

Logical Consistency grid

Completeness complete to date

Horizontal Positional Accuracy approx 50 meters

Vertical Positional Accuracy approx 50 nanoTeslas/km**2

<i>Data Set Name</i>	dcmrp2vd.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

Lineage Data for northeastern Minnesota originally gridded from profile data by Geometrics 1979-81 using minimum curvature, regridded into a state-wide composote Lambert grid 1990-91 by Patterson Grant Watson Ltd. using proprietary software. Additional data composited and regridded to utm from Lake Superior survey (US Geological Survey and Geological Survey ofCanada;GSC), northwestern Wisconsin (U. S. Geological Survey) and Canada (GSC) using potential field software of the US Geological Survey (Version 2.2, ofr-97-725). Reduction to pole and derivative calculation used the same USGS potential field software, assuming a polarization dec/inc=295d/50d and an earth's filed dec/inc=2d/76d.

Source Scale Denominator 200000

Section 3. Spatial Data Organization Information

Native Data Set Environment potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)

Geographic Reference for Tabular Data UTM Coordinates

Spatial Object Type raster

Vendor Specific Object Types cell

Tiling Scheme

Section 4. Spatial Reference Information

Horizontal Coordinate Scheme UTM

Ellipsoid GRS 1980

Horizontal Datum NAD27

Horizontal Units meters

Distance Resolution approx 50 meters

Altitude Datum not applicable

Altitude Units

Depth Datum

Depth Units

Cell Width 213.36 meters

Cell Height 213.36 meters

IF GEOGRAPHIC

Latitude Resolution

Longitude Resolution

<i>Data Set Name</i>	dcmrp2vd.usg
<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

IF UTM

UTM Zone Number 15 (expanded)

UTM Coordinate Offsets or Adjustments

IF STATE PLANE

SPCS Zone Identifier

SPCS Coordinate Offsets or Adjustments

IF COUNTY COORDINATES

County Zone ID

Co Coord offset

IF USER SPECIFIED PROJECTION

Map Projection Name

Map Projection Parameters

IF OTHER

Other Coordinate System's Definition

Section 5. Entity and Attribute Information

<i>Entity and Attribute Overview</i>	Aeromagnetic flight line data from Minnesota was merged, gridded (Lambert), reprojected(UTM), and regridded. It was then composited with aeromagnetic data grids from adjacent parts of Lake Superior, Wisconsin, Michigan and Ontario using USGS potential field software (version 2.2, ofr -9-725). Reception to pole and derivative was calculated using the same USGS
<i>Entity and Attribute Detailed Citation</i>	see Chandler, V.W, Aeromagnetic anomaly map of Minnesota, MGS State Map S-17, scale 1:500,000.

Section 6. Distribution Information

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<i>Online Linkage</i>	FTP from ftp://156.98.153.1/pub2/dulgrmag
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<i>Distributor Organization</i>	Minnesota Geological Survey

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<i>Date</i>	8/29/2000
<i>Metadata Entered By</i>	Val W. Chandler

<i>Distributor Position</i>	Geophysicist
<i>Distributor Street address</i>	2642 University Avenue
<i>Distributor City</i>	St. Paul
<i>Distributor State or Province</i>	MN
<i>Distributor Postal Code</i>	55114
<i>Distributor Voice Phone</i>	612-627-4780 ex. 203
<i>Distributor Fax Phone</i>	612-627-4778
<i>Distributor E-mail Address</i>	chand004@tc.umn.edu
<i>Distributors Data Set Identifier</i>	
<i>Distribution Liability</i>	
<i>Transfer Format Name</i>	ftp of a .zip file
<i>Transfer Format Version Number</i>	windows operating systems-FTP software-WinZip software
<i>Transfer Size</i>	22.4 mb
<i>Ordering Instructions</i>	Contact Val Chandler, Rich Lively, or Lori Day (Map Sales)

Section 7. Metadata Reference Information

<i>Metadata Date</i>	08/29/00
<i>Metadata Contact Person</i>	Val Chandler
<i>Metadata Contact Organization</i>	Minnesota Geological Survey
<i>Metadata Contact Position</i>	Geophysicist
<i>Metadata Contact Street Address</i>	2642 University Avenue
<i>Metadata Contact City</i>	St. Paul
<i>Metadata Contact State or Province</i>	MN
<i>Metadata Contact Postal Code</i>	55114
<i>Metadata Contact Voice Phone</i>	612-627-4780 ext. 203
<i>Metadata Contact Fax Phone</i>	612-627-4778
<i>Metadata Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Metadata Standard Name</i>	Minnesota Geographic Metadata Guidelines
<i>Metadata Standard Version</i>	v. 1.1
<i>Metadata Standard Online Linkage</i>	http://www.lmic.state.mn.us/gc/stds/metadata.htm

Data Set Name

dcmrp2vd.usg

Date

8/29/2000

Metadata Entered By

Val W. Chandler

<i>Data Set Name</i>	dcallg2d.rgr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

Section 1. Identification Information

CITATION

<i>Originator</i>	Minnesota Geological Survey
<i>Title</i>	Second vertical derivative of Bouguer gravity anomaly data upward continued 2 km
<i>Unique Identifier</i>	dcallg2d.rgr
<i>Abstract</i>	Second vertical derivative of Bouguer gravity anomaly upward continued 2km

<i>Purpose</i>	To assist in geologic mapping of the Duluth Complex
<i>Time Period of Content</i>	Data acquired 1956-1998
<i>Currentness Reference</i>	latest gridding and processing spring 1999
<i>Progress</i>	complete

SPATIAL DOMAIN

<i>Maintenance and Update Frequency</i>	none planned
<i>Spatial Extent of Data</i>	Entire Duluth complex and environs
<i>West Bounding Coordinate</i>	-92.5818553
<i>East Bounding Coordinate</i>	-89.4832707
<i>North Bounding Coordinate</i>	48.2218993
<i>South Bounding Coordinate</i>	46.1323153

KEYWORDS

<i>Place Keywords</i>	Duluth, arrowhead, Lake Superior, north shore, eastern Mesabi Range
<i>Theme Keywords</i>	bouguer anomaly, derivaive
<i>Theme Keyword Thesaurus</i>	

CONSTRAINTS

Data Set Name dcallg2d.rgr
Date 8/30/2000
Metadata Entered By Val W. Chandler

Access Constraints Readable by Potential field software of the USGS (version 2.2 ofr-97-725) and GEOSOFT software, winzip

Use Constraints Credit Given to Minnesota Geological Survey and Val W. Chandler

OTHER

Contact Person Val Chandler
Contact Organization Minnesota Geological Survey
Contact Person Position Geophysicist
Contact Street Address 2642 University Avenue
Contact City St. Paul
Contact State or Province MN
Contact Postal Code 55114
Contact Voice Phone 612-627-4780 ext 203
Contact Fax Phone 612-627-4778
Contact E-mail Address chand004@tc.umn.edu

Browse Graphic

Associated Data Sets

Section 2. Data Quality Information

Attribute Accuracy approx 200 meters

Logical Consistency grid

Completeness complete to date

Horizontal Positional Accuracy approx 200 meters

Vertical Positional Accuracy approx .1 milligals/km**2

<i>Data Set Name</i>	dcallg2d.rgr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

Lineage Data in Minnesota acquired by numerous individuals between 1956 and 1998, and gridded to a UTM projection using minimum curvature in 1999. Station spacing varies from .4 to 10 km, depending on road access. Additional data composited and gridded to UTM from Lake Superior survey (National Geophysical Data Center, US Geological Survey; USGS) and Geological Survey of Canada; GSC), northwestern Wisconsin (Wisconsin Geological and Natural History Survey) and Canada (GSC) using potential field software of the US Geological Survey (Version 2.2, ofr-97-725). Upward continuation and derivative calculation used the same USGS potential field software.

Source Scale Denominator

Section 3. Spatial Data Organization Information

<i>Native Data Set Environment</i>	potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)
<i>Geographic Reference for Tabular Data</i>	UTM Coordinates
<i>Spatial Object Type</i>	raster
<i>Vendor Specific Object Types</i>	cell

Tiling Scheme

Section 4. Spatial Reference Information

<i>Horizontal Coordinate Scheme</i>	UTM
<i>Ellipsoid</i>	GRS 1980
<i>Horizontal Datum</i>	NAD27
<i>Horizontal Units</i>	meters
<i>Distance Resolution</i>	approx 50 meters
<i>Altitude Datum</i>	not applicable
<i>Altitude Units</i>	
<i>Depth Datum</i>	
<i>Depth Units</i>	
<i>Cell Width</i>	213.36 meters
<i>Cell Height</i>	213.36 meters

IF GEOGRAPHIC

Latitude Resolution

Longitude Resolution

Data Set Name dcallg2d.rgr
Date 8/30/2000
Metadata Entered By Val W. Chandler

IF UTM

UTM Zone Number 15 (expanded)

UTM Coordinate Offsets or Adjustments

IF STATE PLANE

SPCS Zone Identifier

SPCS Coordinate Offsets or Adjustments

IF COUNTY COORDINATES

County Zone ID

Co Coord offset

IF USER SPECIFIED PROJECTION

Map Projection Name

Map Projection Parameters

IF OTHER

Other Coordinate System's Definition

Section 5. Entity and Attribute Information

Entity and Attribute Overview Gravity data from Minnesota was merged and gridded (UTM) data from adjacent parts of Lake Superior, Wisconsin, Michigan and Ontario using USGS potential field software (version 2.2, ofr -9-725). Upward continuation and derivative was calculated using the same USGS software.

Entity and Attribute Detailed Citation see Chandler, V.W, and Schaap, B. D., 1991, Bouguer anomaly map of Minnesota, MGS State Map S-16, scale 1:500,000.

Section 6. Distribution Information

Publisher Minnesota Geological Survey
Publication Date 08/29/00
Online Linkage FTP from ftp://156.98.153.1/pub2/dulgrmag
Distributor Contact Person Val Chandler
Distributor Organization Minnesota Geological Survey

<i>Data Set Name</i>	dcallg2d.rgr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

<i>Distributor Position</i>	Geophysicist
<i>Distributor Street address</i>	2642 University Avenue
<i>Distributor City</i>	St. Paul
<i>Distributor State or Province</i>	MN
<i>Distributor Postal Code</i>	55114
<i>Distributor Voice Phone</i>	612-627-4780 ex. 203
<i>Distributor Fax Phone</i>	612-627-4778
<i>Distributor E-mail Address</i>	chand004@tc.umn.edu
<i>Distributors Data Set Identifier</i>	
<i>Distribution Liability</i>	
<i>Transfer Format Name</i>	ftp of a .zip file
<i>Transfer Format Version Number</i>	windows operating systems-FTP software-WinZip software
<i>Transfer Size</i>	22.4 mb
<i>Ordering Instructions</i>	Contact Val Chandler, Rich Lively, or Lori Day (Map Sales)

Section 7. Metadata Reference Information

<i>Metadata Date</i>	08/29/00
<i>Metadata Contact Person</i>	Val Chandler
<i>Metadata Contact Organization</i>	Minnesota Geological Survey
<i>Metadata Contact Position</i>	Geophysicist
<i>Metadata Contact Street Address</i>	2642 University Avenue
<i>Metadata Contact City</i>	St. Paul
<i>Metadata Contact State or Province</i>	MN
<i>Metadata Contact Postal Code</i>	55114
<i>Metadata Contact Voice Phone</i>	612-627-4780 ext. 203
<i>Metadata Contact Fax Phone</i>	612-627-4778
<i>Metadata Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Metadata Standard Name</i>	Minnesota Geographic Metadata Guidelines
<i>Metadata Standard Version</i>	v. 1.1
<i>Metadata Standard Online Linkage</i>	http://www.lmic.state.mn.us/gc/stds/metadata.htm

Data Set Name

dcallg2d.rgr

Date

8/30/2000

Metadata Entered By

Val W. Chandler

<i>Data Set Name</i>	dcallg.rgr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

Section 1. Identification Information

CITATION

<i>Originator</i>	Minnesota Geological Survey
<i>Title</i>	Bouguer gravity anomaly data
<i>Unique Identifier</i>	dcallg.rgr
<i>Abstract</i>	Bouguer gravity anomaly

<i>Purpose</i>	To assist in geologic mapping of the Duluth Complex
<i>Time Period of Content</i>	Data acquired 1956-1998
<i>Currentness Reference</i>	latest gridding and processing spring 1999
<i>Progress</i>	complete

SPATIAL DOMAIN

<i>Maintenance and Update Frequency</i>	none planned
<i>Spatial Extent of Data</i>	Entire Duluth complex and environs
<i>West Bounding Coordinate</i>	-92.5818553
<i>East Bounding Coordinate</i>	-89.4832707
<i>North Bounding Coordinate</i>	48.2218993
<i>South Bounding Coordinate</i>	46.1323153

KEYWORDS

<i>Place Keywords</i>	Duluth, arrowhead, Lake Superior, north shore, eastern Mesabi Range
<i>Theme Keywords</i>	bouguer anomaly, gravity
<i>Theme Keyword Thesaurus</i>	

CONSTRAINTS

Data Set Name dcallg.rgr
Date 8/30/2000
Metadata Entered By Val W. Chandler

Access Constraints Readable by Potential field software of the USGS (version 2.2 ofr-97-725) and GEOSOFT software, winzip

Use Constraints Credit Given to Minnesota Geological Survey and Val W. Chandler

OTHER

Contact Person Val Chandler
Contact Organization Minnesota Geological Survey
Contact Person Position Geophysicist
Contact Street Address 2642 University Avenue
Contact City St. Paul
Contact State or Province MN
Contact Postal Code 55114
Contact Voice Phone 612-627-4780 ext 203
Contact Fax Phone 612-627-4778
Contact E-mail Address chand004@tc.umn.edu
Browse Graphic
Associated Data Sets

Section 2. Data Quality Information

Attribute Accuracy approx 50 meters

Logical Consistency grid

Completeness complete to date

Horizontal Positional Accuracy approx 200 meters

Vertical Positional Accuracy approx 0.3 milligals

<i>Data Set Name</i>	dcallg.rgr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

Lineage Data in Minnesota acquired by numerous individuals between 1956 and 1998, and gridded to a UTM projection using minimum curvature in 1999. Station spacing varies from .4 to 10 km, depending on road access. Additional data composited and gridded to UTM from Lake Superior survey (National Geophysical Data Center, US Geological Survey; USGS) and Geological Survey of Canada (GSC), northwestern Wisconsin (Wisconsin Geological and Natural History Survey) and Canada (GSC) using potential field software of the US Geological Survey (Version 2.2, ofr-97-725).

Source Scale Denominator

Section 3. Spatial Data Organization Information

<i>Native Data Set Environment</i>	potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)
<i>Geographic Reference for Tabular Data</i>	UTM Coordinates
<i>Spatial Object Type</i>	raster
<i>Vendor Specific Object Types</i>	cell

Tiling Scheme

Section 4. Spatial Reference Information

<i>Horizontal Coordinate Scheme</i>	UTM
<i>Ellipsoid</i>	GRS 1980
<i>Horizontal Datum</i>	NAD27
<i>Horizontal Units</i>	meters
<i>Distance Resolution</i>	approx 50 meters
<i>Altitude Datum</i>	not applicable
<i>Altitude Units</i>	
<i>Depth Datum</i>	
<i>Depth Units</i>	
<i>Cell Width</i>	213.36 meters
<i>Cell Height</i>	213.36 meters

IF GEOGRAPHIC

Latitude Resolution

Longitude Resolution

<i>Data Set Name</i>	dcallg.rgr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

IF UTM

<i>UTM Zone Number</i>	15 (expanded)
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UTM Coordinate Offsets or Adjustments

IF STATE PLANE

SPCS Zone Identifier

SPCS Coordinate Offsets or Adjustments

IF COUNTY COORDINATES

County Zone ID

Co Coord offset

IF USER SPECIFIED PROJECTION

Map Projection Name

Map Projection Parameters

IF OTHER

Other Coordinate System's Definition

Section 5. Entity and Attribute Information

<i>Entity and Attribute Overview</i>	Gravity data from Minnesota was merged and gridded (UTM) data from adjacent parts of Lake Superior, Wisconsin, Michigan and Ontario using USGS potential field software (version 2.2, ofr -9-725).
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Entity and Attribute Detailed Citation

Section 6. Distribution Information

<i>Publisher</i>	Minnesota Geological Survey
<i>Publication Date</i>	08/29/00
<i>Online Linkage</i>	FTP from ftp://156.98.153.1/pub2/dulgrmag
<i>Distributor Contact Person</i>	Val Chandler
<i>Distributor Organization</i>	Minnesota Geological Survey

<i>Data Set Name</i>	dcallg.rgr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

<i>Distributor Position</i>	Geophysicist
<i>Distributor Street address</i>	2642 University Avenue
<i>Distributor City</i>	St. Paul
<i>Distributor State or Province</i>	MN
<i>Distributor Postal Code</i>	55114
<i>Distributor Voice Phone</i>	612-627-4780 ex. 203
<i>Distributor Fax Phone</i>	612-627-4778
<i>Distributor E-mail Address</i>	chand004@tc.umn.edu
<i>Distributors Data Set Identifier</i>	
<i>Distribution Liability</i>	
<i>Transfer Format Name</i>	ftp of a .zip file
<i>Transfer Format Version Number</i>	windows operating systems-FTP software-WinZip software
<i>Transfer Size</i>	22.4 mb
<i>Ordering Instructions</i>	Contact Val Chandler, Rich Lively, or Lori Day (Map Sales)

Section 7. Metadata Reference Information

<i>Metadata Date</i>	08/29/00
<i>Metadata Contact Person</i>	Val Chandler
<i>Metadata Contact Organization</i>	Minnesota Geological Survey
<i>Metadata Contact Position</i>	Geophysicist
<i>Metadata Contact Street Address</i>	2642 University Avenue
<i>Metadata Contact City</i>	St. Paul
<i>Metadata Contact State or Province</i>	MN
<i>Metadata Contact Postal Code</i>	55114
<i>Metadata Contact Voice Phone</i>	612-627-4780 ext. 203
<i>Metadata Contact Fax Phone</i>	612-627-4778
<i>Metadata Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Metadata Standard Name</i>	Minnesota Geographic Metadata Guidelines
<i>Metadata Standard Version</i>	v. 1.1
<i>Metadata Standard Online Linkage</i>	http://www.lmic.state.mn.us/gc/stds/metadata.htm

Data Set Name

dcallg.rgr

Date

8/30/2000

Metadata Entered By

Val W. Chandler

<i>Data Set Name</i>	dcallg.hdr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

Section 1. Identification Information

CITATION

<i>Originator</i>	Minnesota Geological Survey
<i>Title</i>	Principle fact Bouguer gravity anomaly data
<i>Unique Identifier</i>	
<i>Abstract</i>	Bouguer gravity anomaly

<i>Purpose</i>	To assist in geologic mapping of the Duluth Complex
<i>Time Period of Content</i>	Data acquired 1956-1998
<i>Currentness Reference</i>	latest processing spring 1999
<i>Progress</i>	complete

SPATIAL DOMAIN

<i>Maintenance and Update Frequency</i>	none planned
<i>Spatial Extent of Data</i>	Entire Duluth complex and environs
<i>West Bounding Coordinate</i>	-92.5818553
<i>East Bounding Coordinate</i>	-89.4832707
<i>North Bounding Coordinate</i>	48.2218993
<i>South Bounding Coordinate</i>	46.1323153

KEYWORDS

<i>Place Keywords</i>	Duluth, arrowhead, Lake Superior, north shore, eastern Mesabi Range
<i>Theme Keywords</i>	bouguer anomaly, principle fact, gravity stations
<i>Theme Keyword Thesaurus</i>	

CONSTRAINTS

<i>Data Set Name</i>	dcallg.hdr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler
<hr/>	
<i>Access Constraints</i>	Readable by some Potential field software of the USGS (MINC,version 2.2 ofr-97-725), winzip (ASCII file can be read as text; dos)
<i>Use Constraints</i>	Credit Given to Minnesota Geological Survey and Val W. Chandler
<i>OTHER</i>	
<i>Contact Person</i>	Val Chandler
<i>Contact Organization</i>	Minnesota Geological Survey
<i>Contact Person Position</i>	Geophysicist
<i>Contact Street Address</i>	2642 University Avenue
<i>Contact City</i>	St. Paul
<i>Contact State or Province</i>	MN
<i>Contact Postal Code</i>	55114
<i>Contact Voice Phone</i>	612-627-4780 ext 203
<i>Contact Fax Phone</i>	612-627-4778
<i>Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Browse Graphic</i>	
<i>Associated Data Sets</i>	

Section 2. Data Quality Information

<i>Attribute Accuracy</i>	approx 200 meters
<i>Logical Consistency</i>	ASCII (text) file, one line per station
<i>Completeness</i>	complete to date
<i>Horizontal Positional Accuracy</i>	approx 200 meters for most stations
<i>Vertical Positional Accuracy</i>	2 feet

<i>Data Set Name</i>	dcallg.hdr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler

Lineage Data in Minnesota acquired by numerous individuals between 1956 and 1998. Station spacing varies from .4 to 10 km, depending on road access. Additional data composited from Lake Superior (National Geophysical Data Center, US Geological Survey; USGS) and Geological Survey of Canada (GSC), northwestern Wisconsin (Wisconsin Geological and Natural History Survey) and Canada (GSC) using dos editor and geophysical software of the Minnesota Geological Survey

Source Scale Denominator

Section 3. Spatial Data Organization Information

<i>Native Data Set Environment</i>	potential field software of the US Geological Survey (Version 2.2 ,ofr-97-725)
<i>Geographic Reference for Tabular Data</i>	UTM Coordinates
<i>Spatial Object Type</i>	point
<i>Vendor Specific Object Types</i>	Each line in this ascii file is a station with lat,long, utme,utmn,ele,agsg,free air g, Bouguer g, source id and sta. number, first line is a header telling what each column is.

Tiling Scheme

Section 4. Spatial Reference Information

<i>Horizontal Coordinate Scheme</i>	UTM
<i>Ellipsoid</i>	GRS 1980
<i>Horizontal Datum</i>	NAD27
<i>Horizontal Units</i>	meters
<i>Distance Resolution</i>	approx 200 meters
<i>Altitude Datum</i>	not applicable
<i>Altitude Units</i>	
<i>Depth Datum</i>	
<i>Depth Units</i>	
<i>Cell Width</i>	213.36 meters
<i>Cell Height</i>	213.36 meters

IF GEOGRAPHIC

Latitude Resolution

Longitude Resolution

Data Set Name dcallg.hdr
Date 8/30/2000
Metadata Entered By Val W. Chandler

IF UTM

UTM Zone Number 15 (expanded)

UTM Coordinate Offsets or Adjustments

IF STATE PLANE

SPCS Zone Identifier

SPCS Coordinate Offsets or Adjustments

IF COUNTY COORDINATES

County Zone ID

Co Coord offset

IF USER SPECIFIED PROJECTION

Map Projection Name

Map Projection Parameters

IF OTHER

Other Coordinate System's Definition

Section 5. Entity and Attribute Information

Entity and Attribute Overview Gravity data from Minnesota was merged and gridded (UTM) data from adjacent parts of Lake Superior, Wisconsin, Michigan and Ontario using Minnesota Geological Survey geophysical software and text editor (dos). Each line in this ascii file is a station with lat, long, utme, utmn, ele, agsg, free air g, Bouguer g, source id and sta. number, first line is a header telling what each

Entity and Attribute Detailed Citation see Chandler, V.W., and Schaap, B. D., 1991, Bouguer anomaly map of Minnesota, MGS State Map S-16, scale 1:500,000.

Section 6. Distribution Information

Publisher Minnesota Geological Survey
Publication Date 08/29/00
Online Linkage FTP from ftp://156.98.153.1/pub2/dulgrmag
Distributor Contact Person Val Chandler
Distributor Organization Minnesota Geological Survey

<i>Data Set Name</i>	dcallg.hdr
<i>Date</i>	8/30/2000
<i>Metadata Entered By</i>	Val W. Chandler
<hr/>	
<i>Distributor Position</i>	Geophysicist
<i>Distributor Street address</i>	2642 University Avenue
<i>Distributor City</i>	St. Paul
<i>Distributor State or Province</i>	MN
<i>Distributor Postal Code</i>	55114
<i>Distributor Voice Phone</i>	612-627-4780 ex. 203
<i>Distributor Fax Phone</i>	612-627-4778
<i>Distributor E-mail Address</i>	chand004@tc.umn.edu
<i>Distributors Data Set Identifier</i>	
<i>Distribution Liability</i>	
<i>Transfer Format Name</i>	ftp of a .zip file
<i>Transfer Format Version Number</i>	windows operating systems-FTP software-WinZip software
<i>Transfer Size</i>	22.4 mb
<i>Ordering Instructions</i>	Contact Val Chandler, Rich Lively, or Lori Day (Map Sales)

Section 7. Metadata Reference Information

<i>Metadata Date</i>	08/29/00
<i>Metadata Contact Person</i>	Val Chandler
<i>Metadata Contact Organization</i>	Minnesota Geological Survey
<i>Metadata Contact Position</i>	Geophysicist
<i>Metadata Contact Street Address</i>	2642 University Avenue
<i>Metadata Contact City</i>	St. Paul
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<i>Metadata Contact Postal Code</i>	55114
<i>Metadata Contact Voice Phone</i>	612-627-4780 ext. 203
<i>Metadata Contact Fax Phone</i>	612-627-4778
<i>Metadata Contact E-mail Address</i>	chand004@tc.umn.edu
<i>Metadata Standard Name</i>	Minnesota Geographic Metadata Guidelines
<i>Metadata Standard Version</i>	v. 1.1
<i>Metadata Standard Online Linkage</i>	http://www.lmic.state.mn.us/gc/stds/metadata.htm

Data Set Name

dcallg.hdr

Date

8/30/2000

Metadata Entered By

Val W. Chandler
