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Geophysical  
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Facility  
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completely simple  
and thus fats, isn't  
it? You have to  
favor to in this way  
of being

Field Modelling

|UBC GIF:

MAG3D/GRAV3D|

Part 2: Firsts 3-D

Magnetic Inversion

3D Potential Field

Modelling |UBC GIF:

MAG3D/GRAV3D|Pa

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Grav3d About

rt 1: Data file setup

UBC MAG3D  
Geophysical  
Inversion  
Facility  
inversion in 5  
minutes

Constrained  
inversion of  
potential-field data  
- Virtual Lecture  
May 14, 2020 Basic  
Geophysics:

Inversion  
Procedures in  
Geophysics 05-4  
Inverse modeling

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DF 10- A Case

Study in

Geophysical 3D

Magnetic Modeling-

Carl Windels, 2013

CUSP Webinar: The

Future of

Exploration

Geophysics EAGE

Student E-Lecture:

Near surface

geophysics for

engineering... by

George Tuckwell

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Practical

Integration of  
Processing,  
Inversion and

Visualization of  
Magnetotelluric

Geophysical Data

~~Basic Geophysics:~~

~~Near Surface FWI~~

UBC professor

leading research in  
this diverse

landscape ~~What is  
the difference~~

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~~between~~

~~GEOLOGIST \u0026~~

~~GEOPHYSICIST?~~

~~How UBC Evaluates~~

~~Your Application A~~

quick tour of the

UBC Vancouver

campus Full

Wavefield Inversion

University of British

Columbia - A Quick

Overview

Geophysics at

Sandia Basic



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~~Geophysics:~~

~~Processing IV:~~

~~Migration Gravity~~

~~Surveying~~

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Forward and

inverse modeling

UBC GIF - TKC

Celebration ~~UBC~~

~~Vancouver's virtual~~

~~graduation~~

~~ceremony~~ Tutorial

Grav3D part1

Yunyue Elita Li

(National U.

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Singapore / MIT):

Waveform  
inversion with

gradient sampling

~~Unearthing Fermi's~~

~~Geophysics~~ Join

UBC Geography!

UBC Applied

Science Design and

Innovation

~~Corporate~~

~~Sustainability:~~

~~Going Far Beyond~~

~~Advocacy | Lucas~~

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~~Joppa | Global  
Energy Dialogues~~  
Grav3d About Ubc  
Geophysical  
Inversion

This suite of algorithms, developed at the UBC Geophysical Inversion Facility, is needed to invert gravimetric responses over a 3 dimensional

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Grav3d About

distribution of density contrast, or anomalous density.

Inversion

GRAV3D - UBC

Geophysical

Inversion Facility

GRAV3D is a

program library

(version 3.0 as of

August 2005) for

carrying out

forward modelling

and inversion of

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## Grav3d About

surface, airborne, and/or borehole gravity data in three dimensions.

The program library carries out the following functions: Forward modelling of the vertical component of the gravity response to a 3D volume of density contrast.

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Grav3d About

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GRAV3D manual  
home page -

University of British  
Columbia

GRAV3D; A

Program Library for  
Forward Modelling  
and Inversion of  
Gravity Data over  
3D Structures,  
version x.x.

Developed under  
the consortium

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Grav3d About

research project  
Joint/Cooperative  
Inversion of  
Geophysical and  
Geological Data,  
UBC-Geophysical  
Inversion Facility,  
Department of  
Earth and Ocean  
Sciences,  
University of British  
Columbia,  
Vancouver, British  
Columbia.

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Grav3d About

Ubc

Main programs |  
UBC Geophysical  
Inversion Facility

GRAV3D is a  
program library  
(version 3.0 as of  
August 2005) for  
carrying out  
forward modelling  
and inversion of  
surface, airborne,  
and/or borehole  
gravity data in



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Grav3d About

three dimensions.

The program  
library carries out  
the following

functions: Forward  
modelling of the  
vertical component  
of the gravity  
response to a 3D  
volume of density  
contrast.

GRAV3D Version

3.0 A Program

*Page 17/45*

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Grav3d About

Library for Forward  
Modelling ...

The GRAV3D suite of algorithms, developed at the UBC Geophysical Inversion Facility, is used to invert gravimetric responses over a three dimensional distribution of density contrast, or anomalous density.

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Grav3d About

Ubc

2. Background  
theory — grav3d

5.0 documentation

The software used  
for the inversion  
were the University  
of British Columbia  
– Geophysical  
Inversion facility  
(UBC-GIF) program  
suites GRAV3D,  
MAG3D, and  
EM1DTM, and

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Gocad was used for data preparation, inversion management, model integration, visualisation, and interpretation.

Maxwell was used to develop the plate models.

Regional 3D inversion modelling of airborne gravity

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Grav3d About

Ubc

GRAV3D is a program library for carrying out

forward modelling

and inversion of

surface and

airborne gravity

data over 3D

structures. The

program library

carries out the

following functions:

Forward modelling

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## Grav3d About

of the vertical component of the gravity response to a 3D volume of density contrast.

1. GRAV3D package overview — grav3d 5.0 documentation For UBC-GIF 3D inversion codes, the volume is define by

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## Grav3d About

specifying the position of the South-West- Top corner of the volume of ground (the "mesh"), and then all dimensions are in metres after that. This corner could be (0,0,0), or it could be the correct location in UTM based upon the data set, or it

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Grav3d About

could be a position  
on some survey  
grid.

Inversion

FAQ | UBC

Geophysical

Inversion Facility

The below utility  
programs (and UBC-  
GIF graphical user  
interfaces) are  
freely available.

These are NOT the  
inversion or



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modelling programs - they are provided to assist with running the forward modelling and inversion codes, and with inspecting data and models. Industry standard outputs can not be produced, nor are the codes designed for managing

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geophysical data  
sets or for doing  
other forms ...

Inversion

Utility programs |  
UBC Geophysical  
Inversion Facility  
Program libraries  
for modelling and  
inversion that can  
be obtained for  
research use within  
an accredited  
academic

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## Grav3d About

institution include  
DCIP2D, DCIP3D,  
MAG3D, GRAV3D,  
EM1DFM, EM1DTM.

These programs  
will be fully  
function only on  
the computer  
specified on the  
application form. In  
return for providing  
access to software,  
we request details  
about how the

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code was applied,  
and a case history  
if ...

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websites. This article lists the seven best sites that offer ...

Facility

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The completion of  
gravitational data  
inversion results in  
a smooth

recovered model.

GRAV3D is one

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Grav3d About

software that can be used to solve 3D inversion problems of gravity data. Nevertheless, there are still fundamental problems related to how to ensure the validity of GRAV3D to be used in 3D inversion.

GRAV3D Validation

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Grav3d About

Using Generalized  
Cross-Validation  
(GCV ...

Developed by the  
UBC-Geophysical  
Inversion Facility,  
Department of  
Earth and Ocean  
Sciences,  
University of British  
Columbia,  
Vancouver, British  
Columbia.

EM1DTM; A

*Page 32/45*



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Grav3d About

Program Library for  
Forward Modelling  
and Inversion of  
Time Domain

Electromagnetic  
Data over 1D

Structures, version  
x.x (date).

Developed by the  
UBC-Geophysical  
Inversion Facility,  
Department of  
Earth and Ocean  
Sciences,

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Geophysical

UBC-GIF Questions,  
Inversion  
recommendations,

guidelines

Gravity 3D

Inversion using

UBC's Grav3D

inversion software

3D Model

presentation,

display and

manipulation using

Scientific

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Computing and  
Applications'  
Windisp and 3D  
modeler. Merging  
of recent and  
Archival  
Geophysical data  
sets Re-processing  
of Archival  
Geophysical Survey  
data sets.

Data Processing &  
Interpretation «

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*Page 39/45*

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In this video, I  
show you how to  
calculate your first

3-D magnetic  
inversion model

using MAG3D. UBC

GIF software page:

[https://gif.eos.ubc.c  
a/software](https://gif.eos.ubc.ca/software) UBC

GI...

Field Modelling

| UBC GIF:



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MAG3D/GRAV3D|

Part 2: Firsts 3-D

Magnetic Inversion

ModelVision inserts

geological controls

into the UBC -GIF

smooth inversion

and populates the

entire model with

physical properties.

UBC -GIF stands for

the University of

British Columbia,

Geophysical

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Grav3d About

Ubc  
Geophysical  
Inversion  
Facility  
Inversion Facility  
and developed the  
3D voxel inversion  
programs MAG3D  
and GRAV3D.

UBC Model Builder -  
Tensor Research  
GRAV3D 3.0.

GRAV3D is a  
program library for  
carrying out  
forward modelling  
and inversion of

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surface, airborne,  
and/or borehole  
gravity data in  
three dimensions.

Updated to Version  
3.0 June 2005 : gm-  
dataviewer

MeshTools3D :  
EM1DFM 1.0. This  
program inverts  
any type of  
geophysical  
frequency domain  
loop-loop EM data

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to find one of four  
types of 1D  
models, with one of  
four variations of  
the ...

Inversion codes  
and docs -  
University of British  
Columbia  
Setting up  
observation files  
for 3D potential  
field inversion

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