| **To:** | Users of the *British Columbia Specifications and Guidelines for Geomatics Digital Orthophoto Content Series Volume 7 Digital Orthophoto Specifications* |
|---|---|
| **From:** | Base Mapping and Data Exchange Unit, Base Mapping and Geomatic Services Branch |
| **Subject:** | TRIM II - Update of Specifications |
| **Date:** | February 22, 2006 |

# Effectively Immediately

*British Columbia Specifications and Guidelines for Geomatics Digital Orthophoto Content Series Volume 7 Digital Orthophoto Specifications – Release 1.0 – May 1997*
Revised **-** April 01, 2004
Updated – February 22, 2006

## 8.0 Digital File Deliverables
## 8.1 File Formats
All digital orthophotos shall be delivered in one or more of the following formats as selected by the Ministry at the time of contract award.

- Black and white images shall be delivered as 8 bits per pixel. Colour images shall be delivered as 24 bits per pixel (8 bits each for red, green, and blue).
- Multi-spectral imagery shall be delivered with at least 8 bits per band or by the dynamic range of the given image.
- Files shall be delivered as uncompressed TIFF files with GeoTIFF referencing. (updated February 22, 2006)
- ```
  Arc Info files shall be delivered with an accompanying World file
  for automatic georeferencing of the image and several other
  packages.
  ```
- In addition, all images shall be accompanied by an ASCII report file indicating the coordinates of the four corners of the raster file, the pixel size in ground units, and the rotation matrix values used to orient the image to allow for georeferencing of the image in other image processing, CAD, or GIS programs. A sample of such a report is included in Appendix C.
  see also: TRIM II Information Bulletin 005
  CD Deliverables 1998 TRIM II Contracts – revised June 09, 1998
  http://ilmbwww.gov.bc.ca/bmgs/trim/trm2spcs/infobul5/infobul5.pdf
- (Rescinded February 22, 2006) The Ministry may request that images be delivered in Intergraph COT format with a full set of overviews. Overviews are re-sampled versions of the full resolution pixels at ratios of 2, 4, 8, 16, and 32 times the original resolution. This results in a final file that is 33% larger than the full resolution image. COT files shall contain headers with a Global Origin (GO) and Working Units (Units Of Resolution UOR) as specified by the Ministry.
  This format will no longer be supported – ( updated February 22, 2006)
- Other formats may be specified by the Ministry.

**8.2 Media**

All files shall be delivered on a media pre-approved by the Ministry and may include one or more of the following:
- EIDE Removable Hard Drive – formatted to be NT compatable
- CD-ROM
    see also: TRIM II Information Bulletin 005
        CD Deliverables 1998 TRIM II Contracts – revised June 09, 1998
        http://srmwww.gov.bc.ca/bmgs/trim/trm2spcs/infobul5/infobul5.pdf
- DVD-ROM (as per contract)
- Other pre-approved media

**8.3 File Naming**

All digital orthophoto files shall be named according to their BCGS identification number. These files are to be named with the following file name conventions.

| | | |
|---|---|---|
| 1:100,000 | BCGS sheet | 82p_nw.tif |
| 1:50,000 | BCGS sheet | 82p01.tif |
| 1:20,000 | TRIM sheet | 82p.001.tif |
| 1:10,000 | BCGS sheet | 82p.001_1.tif |
| 1:5,000 | BCGS sheet | 82p01_1_2.tif |
| 1:2,500 | BCGS sheet | 82p01_1_2_1.tif |
| 1:2,000 | BCGS sheet | 82p001_063.tif |
| 1:1,000 | BCGS sheet | 82p001_063_2.tif |
| 1:250,000 | BCGS sheet | 82p.tif |

For BC Albers orthophotos, the file naming convention is defined as follows – 1:10 000 BCGS sheet 92b051_1_alb.tif

If a special project is being produced that does not follow the BCGS sheet format then the file naming convention shall be established by the Ministry in consultation with the contractor at the start of the project. An example may be

Project Specific mosaic Telkwanw.tif

**8.4 Directory Structure**

For the removable hard drives, create the 1:250 000 blocks required i.e. 82e, 82f etc. Under the orthophoto folders, create the following mosaic sub folders: ne, nw, se and sw

**8.5 General Deliverables**

Contractors will submit Operating Procedures as part of the deliverables that will include the following:
- production diagram
- resume of all production personnel
- photogrammetric equipment annual calibration reports (scanning)
- quality assurance procedures
- In-house Process Inspection Procedures
- Geo-referenced tiff files
- Cot files will no longer be supported – (February 22, 2006)