Rashid MD NOOR/SLA/SINGOV

17 Mar, 2010 02:18 PM

Our Ref : SLA/SVY 251-72 Vol 6

To All Registered Surveyors

Dear Sirs / Madams

ANNOUNCEMENT ON THE RELEASE OF GEOID MODEL (SGEOID09)

I attach CS Circular No. 3/2010 for your information.

CS Circular no 3_2010.pdf

Yours faithfully

MOHD RASHID NOOR • Principal Technical Executive, Survey Services • Regulatory Division
Singapore Land Authority • 6478-3605 (DID) • 6323-9937 (Fax) • http://www.sla.gov.sg
MISSION: To optimise land resources for the economic and social development of Singapore.
CORE VALUES: Nation first • People Organisation • Innovation and Dynamism • Always delighting customers • Integrity and Professionalism

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CS CIRCULAR NO. 3/2010

To: All Registered Surveyors

ANNOUCEMENT ON THE RELEASE OF GEOID MODEL (SGEOID09)

      We are glad to announce the completion and release of the Singapore Geoid Model known as SGEOID09. The purpose of the model is to convert ellipsoidal height obtained using GPS, to a height which references Survey Department's Datum. The Geoid Model has been validated within mainland Singapore to precision of +/-0.030m and +/- 0.040m at 87% and 97% confidence level respectively.

The model is represented by the following mathematical formula:

GEOID MODEL (GM)

$$GM = 8.94184 + 2.08529*E - 0.16502*N - 0.661429*E^2 - 0.139884*N^2 + 0.232462*E^6*N$$

Where E and N are the normalized easting and northing SVY 21 coordinates

$$E = \frac{(Easting - 4813.123)}{43462.405} \quad \text{and} \quad N = \frac{(Northing - 25542.573)}{24037.684}$$

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2.   An online conversion facility is available in the SiReNT website (http://www.sirent.inlis.gov.sg/).

3.   Before adopting SGEOID09 in your work, please understand and agree to the Terms and Conditions posted on SiReNT website for the usage of SGEOID09.

4.   Please contact Mr. Mohd Rashid Noor at 64783605 (email: Rashid_Md_Noor@sla.gov.sg) if you have further enquiries on SGEOID09.

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