

Spatial Information Management and Workflow at IGM GDB (“Latitud Sur Project” – 1:25.000 Cartographic Production)

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SUMMARY

The Chilean Military Geographic Institute constitutes the official authority, on a permanent basis and representing the State, in all matters relating to geography, surveying and mapping Chilean territory. In that sense, has been involved in a project called “Latitud Sur” that should create a new base Cartography at 1:25.000 scale for Chilean development and defense. The project works capturing cartographic information from satellite imagery and digital elevation models in order to map the whole national territory. To fulfill this objective the IGM Geospatial Database Department has generated a procedure to manage a database with geographic data derived from nationwide mapping capture process following the methodology proposed by the MGCP (Multinational Geospatial Co-production Program) and workflow tracking through a Workflow Manager application. In response to these new needs, has been implemented a cartographic information capture system in Windows environment on a platform Arcgis 10.0 with high-performance equipment for users and administration purposes. Workflow done by Capture operator: The user, in arcgis10 environment, connects to workflow manager where locates the task sent by the Supervisor and then runs the Edit Capture procedure, then opens the Capture program called Summit Evolution from the project integrating elevation models to do their daily capture. Workflow done by supervisor: The Supervisor connects to Workflow Manager in order to complete administrative fields of the task, mark the AOI place to capture and then sends it to the operator to capture their daily work. Conclusions The work procedure adopted for the capture and management of spatial information has allowed to organize workflows in an automatic and organized way, and thus begin capturing of the national territory with very good results in its initial phase from the north of the country using high-performance equipment and software, as well as a procedure aligned to the highest international standards of cartographic production.