Technological Capabilities of DPW PHOTOMOD 6.0: Practice Implementation In the Cartographic Production

Dinara M. Khaydukova

JSC Uralgeoinform, Ekaterinburg, Russia

In October 2014 came the full 64-bit digital photogrammetry system PHOTOMOD 6.0. JSC Uralgeoinform successfully works with PHOTOMOD more than ten years, so already 10 October 2014, the company introduced a new software system to work. At that time, it assumed active use PHOTOMOD 6.0 for the creation of digital orthophotos for satellite images.

In the first part of the report referred to the composition of the professional and technical capabilities of the Department of digital photogrammetry. The main advantage of 64-bit version of the system is complete and optimal use of computer memory, so the company acquired a new modern fleet of workstations. Server distributed processing made an eight-processor computer with Intel (R) Core (TM) 2 3.40GGts i7-3770 CPU, RAM and 16 GB Windows 7 x64. Clients were 7 computers with 4 core processor 4 nuclear Intel (R) Core (TM) 2 3.40GGts i5-3570 CPU, RAM and 16 GB Windows 7 x64. The total number of customers - 9 threads - 28.

The second part describes the experiment posed of "Uralgeoinform" based on the project on creation of digital orthophotos for satellite images. The total area of the captured territory 698000 km2. The number of satellite images: 5139, obtained from spacecraft TH-1, TH-2 and ZY-3. The total size image 1400.832 GB. The resulting volume of digital orthophoto 3000 nomenclature sheets. For the main work in PHOTOMOD 6.0 was allocated two jobs for engineers photogrammetry, the other computers involved only as clients distributed processing and is mainly used by specialists cartographers to work on other projects the company.

Additionally, the report will examine some interesting thematic projects implemented in the enterprise.

In conclusion, the report will draw attention to the positive and negative conditions affecting the speed of the work will be the analysis of the benefits of using PHOTOMOD 6.0, estimated profitability of using DPS PHOTOMOD 6.0 when creating large mapping projects limited number of specialists.