Construction of data distribution and analysis system in Bisei Spaceguard Center

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Bisei Spaceguard Center (BSGC), located in Bisei Town, Okayama Prefecture, is the first facility in Japan to monitor near-Earth asteroids and space debris. This facility, constructed by Japan Space Forum, has three telescopes, one-meter telescope, fifty-centimeter telescope and twenty-five-centimeter telescope. Now, one-meter telescope has been set up and it will be operative soon. Data analysis system for the data produced by the one-meter telescope is under way. When normal operation of one-meter telescope starts, data amounts will be several tens of gigabytes per night. Our data distribution and analaysis system has to be inexpensive, utilize state-of-art Internet technologies, and be automative as much as possible. In this presentation, we will report current advancement of preparation of our system, and show some technical contrivances to handle large amount of data with less expensive and off-the-shelf technology. We will also discuss our technology on the viewpoint of the large-amount data analysis and future generalization and application.