

Status of GNSS CORS GMU1 at Geodetic Department Faculty of Engineering, Gadjah Mada University

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ABSTRACT

GNSS CORS have been growing to be widely applicable in Indonesia. Several government institutions and private companies have installed GNSS CORS at their offices. The GNSS CORS GMU1 is one of several GNSS CORS in Indonesia which is operated by Geodetic Department, Faculty of Engineering, Gadjah Mada University since June 27, 2009. The GMU1 is the main dedication and a kind support from geodetic department, faculty of engineering, Gadjah Mada University alumni. The first launching of GNSS CORS GMU1 is supposed to celebrate 50th anniversary of Geodetic Department, faculty of engineering, Gadjah Mada University. The purpose of GNSS CORS GMU1 is to design for multi purposes including academic research (for staff and students), official and public services. Several users now are waiting for the services of GMU1. The first problem of services for all of user is concerning with the performance of GMU1 station. That is why the evaluation of GMU1 performance will have to be carried out before operated for many users.

In order to evaluate the performance of GMU1, several activities have been done including definition of station, RTK and NRIP test of rover, and post processing method. The definition of station of the GNSS CORS data processing (10 days observation) was carried out by GAMIT 10.35 version.

The paper will be discussed mainly about status of GNSS CORS GMU 1 and preliminary testing.

Key words: GNSS CORS, GMU1, RTK, and NRIP