Since 2000, China has started to improve its gravity earth tidal observation network through the projects of Digital Seismic observation Network of China (DSONOC) and Crustal Movement Observation Network of China II (CMONOCII). Up to now, the network has 64 stations with 69 spring gravimeters (8 GS, 14 DZW, 17 PET, and 30 Gphone model) and 2 superconducting gravimeters. This paper firstly introduced the results of SG-053 calibration by the compared observation with FG5-232 in Gravitation and Earth Tidal Observatory of China (GETOC), and the tidal datum determination of network by the harmonic analyses of SG-05 data, and then displayed the scale factors of all the new gravimeters calibrated at GETOC by the comparison observing with SG-053, at last gave the tidal factors of all instruments of network analyzed by using the software named “GDPAS-CRG (Gravity Data Process Analyses System - Continuous Recording of Gravity)”. The results indicated that the spatial resolution of network is about 400km, the precision of the tidal factors for the main group of O1, K1, M2, and S2 are better than 0.01%, the tidal factors are varied from 1.14~1.19. After studying on the relation of spatial characteristics of tidal factor to the geology blocks of China, it is concluded that the network is capable to display the geology structure.