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Densification of absolute zero-order gravity network in Poland

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Polish zero-order absolute gravity network was established in mid-nineties of twenty century. It consist 12 from 17 projected points. The density and localization of absolute stations isn't enough for geodetic and geodynamical purposes. The different source of systematic errors is fact, that absolute gravity value was measured by several apparatus (FG5, JILA_g, GABL, IMG_C, ZZG). Since 2007 have started works with modernization of Polish AG network (in cooperation with Institute of Geodesy and Cartography, Warsaw). Three tasks were planned: the first – densification of AG network, the second – modernization of two calibration lines for relative measurements, the third – remeasurements of g value for remaining absolute stations of old network. In 2007 first campaign was done. It included several stations in Eastern Poland and central calibration line. In measurements the ballistic apparatus FG5 No 230 took a part. Calibration results of FG5 No 230 from ECAG2007 Meeting (Walferdange) will be also presenting in this paper.