FK190726 Gravity Survey

The FK190726 gravity survey is divided in 8 transits and 10 sites.
The corresponding data files are Excel csv files and have the following channels:

LINE: line name
UTCDate: UTC date in dd/mm/yyyy
TIME: UTC time in hh:mm:ss
ST: Spring Tension in counter unit (~ mGal)
CC: Cross-coupling corrections in counter unit (~ mGal)
RAW_BEAM: Beam position (mV)
BEAMP: Beam derivative (mV/s)
STILL_READING: relative gravity reading in port
GRAV_BASE: value of absolute gravity in port
RAW_GRAV_REL: realtive calculated gravity (mGal)
LATITUDE: Latitude in deg.dddddd
LONGITUDE: Longitude in deg.ddddddd
HEIGHT: Height(m)
X: projected X(m), World Mercator
Y: projected Y(m), World Mercator
PHI: Latitude in rads
LAMBDA: Longitude in rads
PHIP: Phi derivative
LAMBDAP: Lambda derivative
CM: radius of curvature for prime meridian (m)
CN: radius of curvature for equatorial meridian (m)
VN: north velocity(m/s)
VEH: east velocity(m/s)
VU: vertical velocity(m/s)
ABS_GRAV: absolute gravity(mGal)
LATCOR: Latitude correction(mGal) using IGF - Moritz 1980
FACOR: Free-air correction(mGal) using 0.3086 gradient
EOTVOSCOR: Eotvos correction (mGal)
FA_RAW: raw free-air(mGal)
FA_SP: b-spline free-air(mGal)
FA_SP_RA: b-spline free-air+60 sec gaussian filter(mGal)
FA_clean: b-spline free-air+60 sec gaussian filter(mGal) excluding data during turns or change of directions

Using these channels gravity can be re-calculated or filtered using different methods/techniques. A corresponding PDF file contains the equations to use to re-calculate gravity.

The free-air line-data (FA_clean) at the 9 sites have been gridded at ~500 m resolution using a minimum-curvature algorithm, and exported as GMT grids.