

Proposal Identification		03_0012U	
Project Title		[CII] observations of CNM clouds	
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Observations			
Mission Identification		2015-12-08-GR_F264, 2015-12-09-GR_F265	
Flight date		2015 December 09, 10	
GREAT configuration ⁽¹⁾		front-ends: LFA, L1 back-ends: 4GFFT spectrometers	
Astronomical Sources		3C109, 3C131, 3C410P1 Scans: 12483-96, 12559-87 lines: [CII], [NII]	
Calibrated data products based on: kosma_calibrator ver. December 2015, GILDAS software ver. Nov15a			
product level	file name	description	
3a	Cycle3_GT_OT_03_0012_PGoldsmith_Ta.great Cycle3_GT_OT_03_0012_PGoldsmith_Tmb.great	Calibrated to T_A^* scale ($\eta_f = 0.97$). Calibrated ⁽¹⁾ to T_{mb} scale, $\eta_{mb}(L1)=0.69$ $\eta_{mb}(LFA-V) = (0.67, 0.71, 0.71, 0.70, 0.65, 0.66, 0.71)$; $\eta_{mb}(LFA-H) = (0.66, --, 0.60, --, 0.66, 0.68, 0.70)$. Pixel H1 and H3 not included. Independent fit of dry & wet atmosphere. All scans quality validated.	
3b	Cycle3_GT_OT_03_0012_PGoldsmith_3C109_CII.great Cycle3_GT_OT_03_0012_PGoldsmith_3C131_CII.great Cycle3_GT_OT_03_0012_PGoldsmith_3C410P1_CII.great Cycle3_GT_OT_03_0012_PGoldsmith_3C109_NII.great Cycle3_GT_OT_03_0012_PGoldsmith_3C131_NII.great Cycle3_GT_OT_03_0012_PGoldsmith_3C410P1_NII.great	Created with Cycle3_GT_OT_03_0012_PGoldsmith.class 1 st order spectral baselines removed. Average spectra for each source and each line ($1/\sigma_{rms}^2$ weighting of individual spectra, σ_{rms} baseline noise).	

Notes: (1) Heyminck, S., et al.: GREAT: the SOFIA high-frequency heterodyne instrument. *Astron.Astrophys.* 542, L1 (2012)

(2) Guan, X., et al.: GREAT/SOFIA atmospheric calibration. *Astron.Astrophys.* 542, L4 (2012)