Proposal Identification	75_0015			
Project Title	Horsehead and the IC434 PDR interface			
Principle Investigator	E. Young	eyoung@sofia.usra.edu		
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Observations				
Mission Identification	2015-12-11-GR_F266			
Flight date	2015 December 11			
GREAT configuration [1,2]	front-ends: LFA	back-ends: 4GFFT spectrometers		
Astronomical Sources	Horsehead, IC434	Scans: 12715-12790	lines:	CII

Calibrated data products	based on: kosma_calibrator ver. December 2015, GILDAS software ver. Nov15a	
product level	file name	description
3a	Cycle3_GR_DDT_75_0015_EYoung_Ta.great	Calibrated to T_A^* scale (η_f = 0.97).
	Cycle3_GR_DDT_75_0015_EYoung_Ta_reduced.great	Calibrated to T_A^* scale, baselines removed as explained in the Data Reduction letter. All scans quality validated.
	Cycle3_GR_DDT_75_0015_EYoung_Tmb_CII.great	Calibrated[3] to T_{mb} scale, using η_{mb} (LFA-V) = (0.67, 0.71, 0.71, 0.70, 0.65, 0.66, 0.71) η_{mb} (LFA-H) = (0.66, --, 0.60, --, 0.66, 0.68, 0.70). Pixel H1 and H3 are not included. Independent fit of dry & wet atmosphere. Created with Cycle3_GR_DDT_75_0015_EYoung.class.
3b	Cycle3_GR_DDT_75_0015_EYoung_CII.lmv	Gridded map for CII (1/σrms2 weighting of individual spectra, σrms baseline noise). See the attached CLASS script for details of the data processing.
	Cycle3__GR_DDT_75_0015_EYoung_CII.fits	Equivalent map in fits format, and
	Cycle3__GR_DDT_75_0015_EYoung_CII_final.fits	with an outer rim (45") removed.

Notes: (1) Heyminck, S. et al.: GREAT: the SOFIA high-frequency heterodyne instrument. Astron.Astrophys. 542, L1 (2012)
(2) Risacher, C. et al.: First supra-THz Heterodyne Array Receivers for Astronomy with the SOFIA Observatory. IEEE Trans. on THz Science and Technology, Vol. 6, Issue 2, March 2016
(3) Guan, X. et al.: GREAT/SOFIA atmospheric calibration. Astron.Astrophys. 542, L4 (2012)