HESSI GRID PARAMETER TABLE

ITEM	1F	1R	2F	2R	3F	3R	4F	4R	5F	5R	6F	6R	7F	7R	8F	8R	9F	9R	
	1cA	1Cb	2Ba	2Bb	3C	3B	4B	4C	5C	5A	6C	6B	7C	7B	8C	8B	9C	9B	
Label	GPT3-7																		
Version Date	29-Aug-05																		
Description	GH: Same as GPT3-6 with changes to G3,4,5,6 tilts bases on Aug05 demodulation analysis																		
Pitch	0.033998	0.033998	0.058996	0.058996	0.10200	0.10200	0.17699	0.17699	0.30599	0.30599	0.52998	0.52998	0.91793	0.91793	1.5899	1.5900	2.7549	2.7550	mm
Phase	0.0128	-0.0145	0.0045	-0.0268	0.0623	-0.0920	0.0052	-0.0108	0.0717	-0.2253	0.2125	-0.1038	0.2494	-0.9124	1.3616	-0.4528	2.6094	-0.3057	mm
Orientation	202.5678	202.5671	157.5678	157.5666	202.5808	202.5794	157.5414	157.5418	224.9468	224.9355	135.0126	135.0194	45.0401	45.0384	0.0821	0.0791	90.0685	90.0089	deg
Rmserror	0.0010	0.0010	0.0013	0.0013	0.0010	0.0013	0.0009	0.0009	0.0089	0.0108	0.0061	0.0060	0.0055	0.0099	0.0064	0.0086	0.0168	0.0160	mm
Slit	0.0279	0.0282	0.0413	0.0412	0.0674	0.0671	0.1254	0.1262	0.177	0.178	0.328	0.326	0.494	0.493	0.826	0.828	1.481	1.478	mm
Thickness	1.250	1.230	2.042	2.045	3.564	3.518	6.134	6.137	10.70	10.70	18.56	18.56	6.19	6.19	6.18	6.18	29.94	29.94	mm
Slit edge	-0.0037	-0.0038	0.0036	0.0042	0.0085	0.0090	0.0108	0.0100	0	0	0	0	0	0	0	0	0	0	mm
Slat lin.density	0.000707	0.000669	0.00631	0.00636	0.0225	0.0226	0.0575	0.0566	0.264	0.262	0.716	0.723	0.491	0.492	0.897	0.895	7.24	7.26	g/cm
Tilt	0.021	-0.006	0.016	-0.010	0.025	0.018	0.022	0.010	0.141	0.134	0.090	0.031	0.033	-0.016	0.022	0.041	-0.037	-0.050	deg
Spiral	-0.0021	-0.0061	-0.0011	0.0014	-0.0003	0.0015	0.0013	-0.0079	0.0044	0.0035	0.0053	0.0016	0.0034	0.0042	0.0063	0.0036	0.0070	0.0038	deg
Slat material	Mo	Mo	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	
Bridge mat.	Mo	Mo	W	W	W	W	W	W	FeNi	FeNi	FeNiCu	FeNiCu	FeNiCu	FeNiCu	FeNiCu	FeNiCu	Invar	Invar	
Bridge period	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	mm
Bridge width	0.106	0.106	0.054	0.054	0.113	0.113	0.122	0.122	1.90	1.90	1.55	1.55	1.55	1.55	1.55	1.55	1.00	1.00	mm
Bridge height	1.250	1.230	2.042	2.045	3.564	3.518	6.134	6.137	21.0	21.0	30.2	30.2	17.2	17.2	17.2	17.2	37.8	37.8	mm
Bridge lin.dens	0.0123	0.0122	0.0193	0.0193	0.0737	0.0732	0.1355	0.1546	2.32	2.32	1.60	1.60	1.19	1.19	1.30	1.30	0.83	0.83	g/cm
Grid position	1772.541	222.684	1771.834	221.984	1771.114	221.287	1769.918	220.009	1767.179	217.361	1763.546	213.640	1769.738	219.876	1769.711	219.914	1757.856	207.997	mm

Comments:

GPT3-7 represents the CBE based on in-flight calibrations as of Aug 29, 2005.

Grid 1-4 parameters based on grid1-4may01.xls, as of 24-may-01

Grid 5-9 parameters based on grid5-9may01.xls as of 21-may-01

Grid 5-9 bridge parameters based on VBC Bridge Parameters as of 29-May-01 (VBC Bridge Model 29may01.xls)

Grid 5-9 bridge separation based on BridgeCorr.xls as of 16-apr-01.

Orientation, phase, grid position, and tilt based on AZgridCoordsFeb2002.xls which incorporate Feb 20 corrections.

Orientation and tilt angular conventions are consistent in context of Grid Fiducial coordinate systems.

Spiral values based on ogcfangsum.xls.

Tilt values based on shimtable.xls as adjusted for GF sign conventions.

Sign of grid 5 tilts reversed per April 2002 analysis.

Tilt tray corrections calculated in CorrGridTIlt.xls

Common mode tilts for grids 3,4,5,6 adjusted per Aug 28/28 2005 demodulation analyses.

Pitch and Rmserror data based on ogcfposum.xls.

Front grid phase data represents difference between front and grid preflight phase values.

Rear grid phases represent in-flight calibrations as of 14-July-05, based on visibility analyses.

Slit-edge values semi-optimized using hessi_grm_calc runs of 24-may-01.

Assumed Fe:Ni:Cu composition ratios of FeNi, FeNiCu and Invar are: 91:09:00, 34:18:48, 64:36:00 respectively.

Boxed area should be pasted into a text file named 'label.TXT' which is read by hsi_rd_grid_parm_table