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Portal Simbad VizieR Aladin X-Match Other Help

J/A+A/594/A28 Planck Catalogue of Galactic cold clumps (PGCC) (Planck+, 2016)

Planck 2015 results. XXVIII. The Planck Catalogue of Galactic cold clumps.

Planck collaboration

Ade P.A.R., Aghanim N., Arnaud M., Ashdown M., Aumont J., Baccigalupi C., Banday A.J., Barreiro R.B., Bartolo N., Battaner E., Benabed K., Benoit A., Benoit-Levy A., Bernard J.-P., Bersanelli M., Bielewicz P., Bonaldi A., Bonavera L., Bond J.R., Borrill J., Bouchet F.R., Boulanger F., Bucher M., Burigana C., Butler R.C., Calabrese E., Catalano A., Chamballu A., Chiang H.C., Christensen P.R., Clements D.L., Colombi S., Colombo L.P.L., Combet C., Couchot F., Coulais A., Crill B.P., Curto A., Cuttaia F., Danese L., Davies R.D., Davis R.J., de Bernardis P., de Rosa A., de Zotti G., Delabrouille J., Desert F.-X., Dickinson C., Diego J.M., Dole H., Donzelli S., Dore O., Douspis M., Ducout A., Dupac X., Efstathiou G., Elsner F., Ensslin T.A., Eriksen H.K., Falgarone E., Fergusson J., Fergusson J., Finelli F., Forni O., Frailis M., Fraisse A.A., Franceschi E., Frejsel A., Galeotta S., Galli S., Ganga K., Giard M., Giraud-Heraud Y., Gjerlow E., Gonzalez-Nuevo J., Gorski K.M., Gratton S., Gregorio A., Gruppuso A., Gudmundsson J.E., Hansen F.K., Hanson D., Harrison D.L., Helou G., Henrot-Versille S., Hernandez-Monteagudo C., Herranz D., Hildebrandt S.R., Hivon E., Hobson M., Holmes W.A., Hornstrup A., Hovest W., Huffenberger K.M., Hurier G., Jaffe A.H., Jaffe T.R., Jones W.C., Juvela M., Keihänen E., Keskitalo R., Kisner T.S., Knoch J., Kunz M., Kurki-Suonio H., Lagache G., Lamarre J.-M., Lasenby A., Lattanzi M., Lawrence C.R., Leonardi R., Lesgourgues J., Levrier F., Liguori M., Lilje P.B., Linden-Vornle M., Lopez-Caniego M., Lubin P.M., Macias-Perez J.F., Maggio G., Maino D., Mandolesi N., Mangilli A., Marshall D.J., Martin P.G., Martinez-Gonzalez E., Masi S., Matarrese S., Mazzotta P., McGehee P., Melchiorri A., Mendes L., Mennella A., Migliaccio M., Mitra S., Miville-Deschenes M.-A., Moneti A., Montier L., Morgante G., Mortlock D., Moss A., Munshi D., Murphy J.A., Naselsky P., Nati F., Natoli P., Netterfield C.B., Norgaard-Nielsen H.U., Noviello F., Novikov D., Novikov I., Oxborrow C.A., Paci F., Pagano L., Pajot F., Paladini R., Paoletti D., Pasian F., Patanchon G., Pearson T.J., Pelkonen V.-M., Perdereau O., Perotto L., Perrotta F., Pettorino V., Piacentini F., Piat M., Pierpaoli E., Pietrobon D., Plaszczynski S., Pointecouteau E., Polenta G., Pratt G.W., Prezeau G., Prunet S., Puget J.-L., Rachen J.P., Reach W.T., Rebolo R., Reinecke M., Remazeilles M., Renault C., Renzi A., Ristorcelli I., Rocha G., Rosset C., Rossetti M., Roudier G., Rubino-Martin J.A., Rusholme B., Sandri M., Santos D., Savelainen M., Savini G., Scott D., Seiffert M.D., Shellard E.P.S., Spencer L.D., Stolyarov V., Sudiwala R., Sunyaev R., Sutton D., Suur-Uski A.-S., Sygnet J.-F., Tauber J.A., Terenzi L., Toffolatti L., Tomasi M., Tristram M., Tucci M., Tuovinen J., Umana G., Valenziano L., Valiviita J., Van Tent B., Vielva P., Villa F., Wade L.A., Wandelt B.D., Wehus I.K., Yvon D., Zacchei A., Zonca A.

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Abstract:

We present the Planck Catalogue of Galactic Cold Clumps (PGCC), an all-sky catalogue of Galactic cold clump candidates detected by Planck. This catalogue is the full version of the Early Cold Core (ECC) catalogue, which was made available in 2011 with the Early Release Compact Source Catalogue (ERCSC) and which contained 915 high signal-to-noise sources. It is based on the Planck 48-month mission data that are currently being released to the astronomical community. The PGCC catalogue is an observational catalogue consisting exclusively of Galactic cold sources. The three highest Planck bands (857, 454, and 353GHz) have been combined with IRAS data at 3THz to perform a multi-frequency detection of sources colder than their local environment. After rejection of possible extragalactic contaminants, the PGCC catalogue contains 13188 Galactic sources spread across the whole sky, i.e., from the Galactic plane to high latitudes, following the spatial distribution of the main molecular cloud complexes. The median temperature of PGCC sources lies between 13 and 14.5K, depending on the quality of the flux density measurements, with a temperature ranging from 5.8 to 20K after removing the sources with the top 1% highest temperature estimates. Using seven independent methods, reliable distance estimates have been obtained for 5574 sources, which allows us to derive their physical properties such as their mass, physical size, mean density, and luminosity. The PGCC sources are located mainly in the solar neighbourhood, but also up to a distance of 10.5kpc in the direction of the Galactic centre, and range from low-mass cores to large molecular clouds. Because of this diversity and because the PGCC catalogue contains sources in very different environments, the catalogue is useful for investigating the evolution from molecular clouds to cores. Finally, it also includes 54 additional sources located in the Small and Large Magellanic Clouds.

Description:

The Planck Catalogue of Galactic Cold Clumps (PGCC) is a list of 13188 Galactic sources and 54 sources located in the Small and Large Magellanic Clouds. The sources have been identified in Planck data as sources colder than their environment. It has been built using the 48 months Planck data at 857, 545, and 353GHz combined with the 3THz IRAS data.

File Summary:

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
pgcc.dat	1331	13242	Planck Catalogue of Galactic Cold Clumps (PGCC)

See also:

VIII/88	: Planck Early Release Compact Source Catalogue (Planck, 2011)
VIII/91	: Planck Catalog of Compact Sources Release 1 (Planck, 2013)
J/A+A/536/A8	: Planck early results. VIII. ESZ sample. (Planck+, 2011)
J/A+A/581/A14	: Updated Planck catalogue PSZ1 (Planck+, 2015)
J/A+A/594/A26	: Second Planck Catalogue of Compact Sources PCCS2 (Planck, 2016)
J/AA+/594/A27	: Second Planck Catalogue of Sunyaev-Zeldovich sources PSZ2 (Planck, 2016)
J/A+A/596/A100	: Planck high-z source candidates catalog (PHZ) (Planck+, 2016)
J/ApJ/756/76	: Planck cold dust clumps CO survey (Wu+, 2012)
J/ApJS/202/4	: Planck cold clumps survey in the Orion complex (Liu+, 2012)
J/ApJS/209/37	: Planck cold clumps in ^{12}CO , ^{13}CO and C^{18}O (Meng+, 2013)
J/ApJS/224/43	: Planck cold clumps & cores in the 2nd quadrant (Zhang+, 2016)
J/ApJ/820/37	: HCO+ and HCN toward Planck Galactic Cold Clumps (Yuan+, 2016)

Byte-by-byte Description of file: [pgcc.dat](#)

Bytes	Format	Units	Label	Explanations
1- 18	A18	---	Name	Source Name (NAME)
20- 29	F10.6	deg	GLON	Galactic longitude based on morphology fitting (GLON)
31- 40	F10.6	deg	GLAT	Galactic latitude based on morphology fitting (GLAT)
42- 51	F10.6	deg	RAdeg	Right ascension (J2000) in degrees transformed from (GLON, GLAT) (RA)
53- 62	F10.6	deg	DEdeg	Declination (J2000) in degrees transformed from (GLON, GLAT) (DEC)
64- 72	F9.5	---	SNR	Maximum S/N over the 857, 545, and 353GHz Planck cold residual maps (SNR)
74- 82	F9.5	---	SNR857	S/N of the cold residual detection at 857GHz (SNR_857)
84- 92	F9.5	---	SNR545	S/N of the cold residual detection at 545GHz (SNR_545)
94-102	F9.5	---	SNR353	S/N of the cold residual detection at 353GHz (SNR_353)
104-112	F9.6	arcmin	maj	?=0 FWHM along the major axis of the elliptical Gaussian (GAU _{MAJOR} AXIS)
114-121	F8.6	arcmin	e_maj	?=0 1 σ uncertainty on FWHM along the major axis (GAU _{MAJOR} AXIS_SIG)
123-131	F9.6	arcmin	min	?=0 FWHM along the minor axis of the elliptical Gaussian (GAU _{MINOR} AXIS)
133-140	F8.6	arcmin	e_min	?=0 1 σ uncertainty on FWHM along the minor axis (GAU _{MINOR} AXIS_SIG)
142-150	F9.6	rad	PA	[?]=0 Position angle of the elliptical gaussian (GAU _{POSITION} ANGLE) (1)
152-159	F8.6	rad	e_PA	?=0 1 σ uncertainty on position angle (GAU _{POSITION} ANGLE_SIG)
161-172	E12.6	Jy	F3000C	?=0 Flux density of the clump at 3THz (FLUX ₃₀₀₀ CLUMP)
174-185	E12.6	Jy	e_F3000C	?=0 1 σ uncertainty on the flux density of the clump at 3THz (FLUX ₃₀₀₀ CLUMP_SIG)
187-198	E12.6	Jy	F857C	?=0 Flux density of the clump at 857GHz (FLUX ₈₅₇ CLUMP)
200-211	E12.6	Jy	e_F857C	?=0 1 σ uncertainty on the flux density of the clump at 857GHz (FLUX ₈₅₇ CLUMP_SIG)
213-224	E12.6	Jy	F545C	?=0 Flux density of the clump at 545GHz (FLUX ₅₄₅ CLUMP)
226-235	E10.6	Jy	e_F545C	?=0 1 σ uncertainty on the flux density of the clump at 545GHz (FLUX ₅₄₅ CLUMP_SIG)
237-248	E12.6	Jy	F353C	?=0 Flux density of the clump at 353GHz (FLUX ₃₅₃ CLUMP)
250-259	E10.6	Jy	e_F353C	?=0 1 σ uncertainty on the flux density of the clump at 353GHz (FLUX ₃₅₃ CLUMP_SIG)
261-272	E12.6	Jy	F3000W	?=0 Flux density of the warm background at 3THz (FLUX ₃₀₀₀ WBKG) (2)
274-285	E12.6	Jy	e_F3000W	?=0 1 σ uncertainty on the flux density of warm background at 3THz (FLUX ₃₀₀₀ WBKG_SIG)
287-298	E12.6	Jy	F857W	?=0 Flux density of the warm background at 857GHz (FLUX ₈₅₇ WBKG)
300-311	E12.6	Jy	e_F857W	?=0 1 σ uncertainty on the flux density of the warm background at 857GHz (FLUX ₈₅₇ WBKG_SIG)
313-324	E12.6	Jy	F545W	?=0 Flux density of the warm background

326-337	E12.6	Jy	e_F545W	at 545GHz (FLUX ₅₄₅ WBKG) ?=0 1 σ uncertainty on the flux density of the warm background at 545GHz (FLUX ₅₄₅ WBKG_SIG)
339-350	E12.6	Jy	F353W	?=0 Flux density of the warm background at 353GHz (FLUX ₃₅₃ WBKG)
352-361	E10.6	Jy	e_F353W	?=0 1 σ uncertainty on the flux density of the warm background at 353GHz (FLUX ₃₅₃ WBKG_SIG)
363	I1	---	q_Flux	[1-3] Category of flux density reliability (FLUX_QUALITY) (3)
365	I1	---	FBlend	[0/1] 1 if blending issue with flux density estimate (FLUX_BLENDING) (4)
367-371	I5	---	FBlendIDX	?=0 Catalogue index of the closest source responsible for blending (FLUX_BLENDINGIDX)
373-381	F9.6	arcmin	FBlendDist	?=0 Angular distance to the closest source responsible for blending (FLUX_BLENDINGANG_DIST)
383-394	E12.6	%	FBlendB3000	?=0 Relative bias of the flux density at 3000GHz due to blending (FLUX_BLENDINGBIAS_3000)
396-407	E12.6	%	FBlendB857	?=0 Relative bias of the flux density at 857GHz due to blending (FLUX_BLENDINGBIAS_857)
409-420	E12.6	%	FBlendB545	?=0 Relative bias of the flux density at 545GHz due to blending (FLUX_BLENDINGBIAS_545)
422-433	E12.6	%	FBlendB353	?=0 Relative bias of the flux density at 353GHz due to blending (FLUX_BLENDINGBIAS_353)
435-443	F9.6	K	TempC	?=0 Temperature of the clump with β as a free parameter (TEMP_CLUMP)
445-452	F8.6	K	e_TempC	?=0 1 σ uncertainty on the clump temperature with β free (TEMP_CLUMPSIG)
454-462	F9.6	K	bTempC	?=0 Lower 68% confidence limit of the clump temperature with β free (TEMP_CLUMPLOW1)
464-472	F9.6	K	BTempC	?=0 Upper 68% confidence limit of the clump temperature with β free (TEMP_CLUMPUP1)
474-481	F8.6	---	betaC	?=0 Spectral index β of the clump (BETA_CLUMP)
483-490	F8.6	---	e_betaC	?=0 1 σ uncertainty (from MCMC) on the emissivity spectral index β of the clump (BETA_CLUMPSIG)
492-499	F8.6	---	bbetaC	?=0 Lower 68% confidence limit of the emissivity spectral index β of the clump (BETA_CLUMPLOW1)
501-508	F8.6	---	BbetaC	?=0 Upper 68% confidence limit of the emissivity spectral index β of the clump (BETA_CLUMPUP1)
510-518	F9.6	K	Tempbeta2C	?=0 Temperature of the clump with $\beta=2$ (TEMP_BETA2CLUMP)
520-527	F8.6	K	e_Tempbeta2C	?=0 1 σ uncertainty on the temperature of the clump with $\beta=2$ (TEMP_BETA2CLUMP_SIG)
529-537	F9.6	K	bTempbeta2C	?=0 Lower 68% confidence limit of the clump temperature with $\beta=2$ (TEMP_BETA2CLUMP_LOW1)
539-547	F9.6	K	BTempbeta2C	?=0 Upper 68% confidence limit of the clump temperature with $\beta=2$ (TEMP_BETA2CLUMP_UP1)
549-554	F6.3	K	TempW	Temperature of the warm background with β as a free parameter (TEMP_WBKG) (6)
556-564	F9.6	K	e_TempW	1 σ dispersion of the warm background temperature with β free (TEMP_WBKG_SIG)
566-574	F9.6	K	bTempW	Lower 68% confidence limit of the warm background temperature with β free (TEMP_WBKGLOW1)
576-584	F9.6	K	BTempW	Upper 68% confidence limit of the warm background temperature with β free (TEMP_WBKGUP1)
586-590	F5.3	---	betaW	Spectral index β of the warm background (BETA_WBKG) (6)
592-599	F8.6	---	e_betaW	1 σ uncertainty (from MCMC) of the emissivity spectral index β of the warm background (BETA_WBKG_SIG)
601-608	F8.6	---	bbetaW	Lower 68% confidence limit of the emissivity spectral index β of the warm background (BETA_WBKGLOW1)
610-617	F8.6	---	BbetaW	Upper 68% confidence limit of the emissivity spectral index β of the warm background (BETA_WBKGUP1)
619-624	F6.3	K	Tempbeta2W	Temperature of the warm background with $\beta=2$ (TEMP_BETA2WBKG)
626-634	F9.6	K	e_Tempbeta2W	?=0 1 σ uncertainty on the temperature of the warm background with $\beta=2$ (TEMP_BETA2WBKG_SIG)
636-644	F9.6	K	bTempbeta2W	?=0 Lower 68% confidence limit of the

646-654	F9.6	K	BTempbeta2W	warm background temperature with $\beta=2$ (TEMP _{BETA2} WBKG_LOW1) ?=0 Upper 68% confidence limit of the warm background temperature with $\beta=2$ (TEMP _{BETA2} WBKG_UP1)
656-663	F8.6	kpc	DistKin	?=0 Distance estimate [1] using kinematics (DIST_KINEMATIC)
665-672	F8.6	kpc	e_DistKin	?=0 1 σ uncertainty on the distance estimate [1] using kinematics (DIST_KINEMATIC_SIG)
674-681	F8.6	kpc	DistOEDR7	?=0 Distance estimate [2] using optical extinction on SDSS DR7 (DIST_OPTEXT_DR7)
683-690	F8.6	kpc	e_DistOEDR7	?=0 1 σ uncertainty on the distance estimate [2] using optical extinction on SDSS DR7 (DIST_OPTEXT_DR7_SIG)
692-699	F8.6	kpc	DistOEDR9	?=0 Distance estimate [3] using optical extinction on SDSS DR9 (DIST_OPTEXT_DR9)
701-708	F8.6	kpc	e_DistOEDR9	?=0 1 σ uncertainty on the distance estimate [3] using optical extinction on SDSS DR9 (DIST_OPTEXT_DR9_SIG)
710-718	F9.6	kpc	DistNEIRDC	?=0 Distance estimate [4] using near-infrared extinction towards IRDCs (DIST_NIR_EXT_IRDC)
720-727	F8.6	kpc	e_DistNEIRDC	?=0 1 σ uncertainty on the distance estimate [4] using near-infrared extinction towards IRDCs (DIST_NIR_EXT_IRDC_SIG)
729-738	F10.6	kpc	DistNE	?=0 Distance estimate [5] using near-infrared extinction (DIST_NIR_EXT)
740-747	F8.6	kpc	e_DistNE	?=0 1 σ uncertainty on the distance estimate [5] using near-infrared extinction (DIST_NIR_EXT_SIG)
749-756	F8.6	kpc	DistMoC	?=0 Distance estimate [6] using molecular complex association (DIST_MOLECULAR_COMPLEX)
758-769	E12.6	kpc	e_DistMoC	?=0 1 σ uncertainty on the distance estimate [6] using molecular complex association (DIST_MOLECULAR_COMPLEX_SIG)
771-778	F8.6	kpc	DistHKP	?=0 Distance estimate [7] from the Herschel Key-Programme Galactic Cold Cores (DIST_HKP_GCC)
780-787	F8.6	kpc	e_DistHKP	?=0 1 σ uncertainty on the distance estimate [7] from the Herschel Key-Programme Galactic Cold Cores (DIST_HKP_GCC_SIG)
789	I1	---	DistOpt	[0-7] Option of the best distance estimate used in other physical properties (DIST_OPTION)
791	I1	---	q_Dist	[0-4] Quality Flag of the consistency between distance estimates (DIST_QUALITY) (5)
793-802	F10.6	kpc	Dist	?=0 Best distance estimate used for further physical properties (DIST)
804-811	F8.6	kpc	e_Dist	?=0 1 σ uncertainty on the best distance estimate (DIST_SIG)
813-824	E12.6	Msun	Mass	?=0 Mass estimate of the clump (MASS)
826-837	E12.6	Msun	e_Mass	?=0 1 σ uncertainty on the mass estimate of the clump (MASS_SIG)
839-850	E12.6	Msun	b1Mass	?=0 Lower 68% confidence limit of the mass estimate (MASS_LOW1)
852-863	E12.6	Msun	b2Mass	?=0 Lower 95% confidence limit of the mass estimate (MASS_LOW2)
865-876	E12.6	Msun	b3Mass	?=0 Lower 99% confidence limit of the mass estimate (MASS_LOW3)
878-889	E12.6	Msun	B1Mass	?=0 Upper 68% confidence limit of the mass estimate (MASS_UP1)
891-902	E12.6	Msun	B2Mass	?=0 Upper 95% confidence limit of the mass estimate (MASS_UP2)
904-915	E12.6	Msun	B3Mass	?=0 Upper confidence limit of the mass estimate (MASS_UP3)
917-926	F10.6	pc	Size	?=0 Physical size of the clump (SIZE)
928-936	F9.6	pc	e_Size	?=0 1 σ uncertainty on the physical size estimate of the clump (SIZE_SIG)
938-948	F11.6	pc	b1Size	?=0 Lower 68% confidence limit of the physical size estimate (SIZE_LOW1)
950-960	F11.6	pc	b2Size	?=0 Lower 95% confidence limit of the physical size estimate (SIZE_LOW2)
962-972	F11.6	pc	b3Size	?=0 Lower 99% confidence limit of the physical size estimate (SIZE_LOW3)
974-983	F10.6	pc	B1Size	?=0 Upper 68% confidence limit of the physical size estimate (SIZE_UP1)
985-994	F10.6	pc	B2Size	?=0 Upper 95% confidence limit of the physical size estimate (SIZE_UP2)
996-1005	F10.6	pc	B3Size	?=0 Upper 99% confidence limit of the physical size estimate (SIZE_UP3)
1007-1018	E12.6	cm-3	Dens	?=0 Mean density of the clump (DENSITY)
1020-1031	E12.6	cm-3	e_Dens	?=0 1 σ uncertainty on the mean density estimate of the clump (DENSITY_SIG)

1033-1044	E12.6	cm-3	b1Dens	?=0 Lower 68% confidence limit of the mean density estimate (DENSITY_LOW1)
1046-1057	E12.6	cm-3	b2Dens	?=0 Lower 95% confidence limit of the mean density estimate (DENSITY_LOW2)
1059-1070	E12.6	cm-3	b3Dens	?=0 Lower 99% confidence limit of the mean density estimate (DENSITY_LOW3)
1072-1083	E12.6	cm-3	B1Dens	?=0 Upper 68% confidence limit of the mean density estimate (DENSITY_UP1)
1085-1096	E12.6	cm-3	B2Dens	?=0 Upper 95% confidence limit of the mean density estimate (DENSITY_UP2)
1098-1109	E12.6	cm-3	B3Dens	?=0 Upper 99% confidence limit of the mean density estimate (DENSITY_UP3)
1111-1122	E12.6	Lsun	Lum	?=0 Luminosity of the clump (LUMINOSITY)
1124-1131	F8.6	Lsun	e_Lum	[0] 1 σ uncertainty on the luminosity estimate of the clump (LUMINOSITY_SIG)
1133-1140	F8.6	Lsun	b1Lum	[0] Lower 68% confidence limit of the luminosity estimate (LUMINOSITY_LOW1)
1142-1149	F8.6	Lsun	b2Lum	[0] Lower 95% confidence limit of the luminosity estimate (LUMINOSITY_LOW2)
1151-1158	F8.6	Lsun	b3Lum	[0] Lower 99% confidence limit of the luminosity estimate (LUMINOSITY_LOW3)
1160-1167	F8.6	Lsun	B1Lum	[0] Upper 68% confidence limit of the luminosity estimate (LUMINOSITY_UP1)
1169-1176	F8.6	Lsun	B2Lum	[0] Upper 95% confidence limit of the luminosity estimate (LUMINOSITY_UP2)
1178-1185	F8.6	Lsun	B3Lum	[0] Upper 99% confidence limit of the luminosity estimate (LUMINOSITY_UP3)
1187-1198	E12.6	cm-2	NH2	?=0 Column density NH2 of the clump (NH2)
1200-1211	E12.6	cm-2	e_NH2	?=0 1 σ uncertainty on the column density (NH2_SIG)
1213-1224	E12.6	cm-2	b1NH2	?=0 Lower 68% confidence limit of the column density (NH2_LOW1)
1226-1237	E12.6	cm-2	b2NH2	?=0 Lower 95% confidence limit of the column density (NH2_LOW2)
1239-1250	E12.6	cm-2	b3NH2	?=0 Lower 99% confidence limit of the column density (NH2_LOW3)
1252-1263	E12.6	cm-2	B1NH2	?=0 Upper 68% confidence limit of the column density (NH2_UP1)
1265-1276	E12.6	cm-2	B2NH2	?=0 Upper 95% confidence limit of the column density (NH2_UP2)
1278-1289	E12.6	cm-2	B3NH2	?=0 Upper 99% confidence limit of the column density (NH2_UP3)
1291-1299	F9.6	arcmin	NHotSRC	?=0 Angular distance to the closest hot source (NEARBY_HOTSOURCE)
1301-1302	I2	---	FLMC	[-1/1] 1 if part of the LMC (XFLAG_LMC)
1304-1305	I2	---	FSMC	[-1/1] 1 if part of the SMC (XFLAG_SMC)
1307	I1	---	FECC	[-1/1] 1 if present in the ECC (XFLAG_ECC)
1309	I1	---	FPCCS857	[-1/1] 1 if present in the PCCS 857GHz band (XFLAG_PCCS857)
1311	I1	---	FPCCS545	[-1/1] 1 if present in the PCCS 545GHz band (XFLAG_PCCS545)
1313	I1	---	FPCCS353	[-1/1] 1 if present in the PCCS 353GHz band (XFLAG_PCCS353)
1315	I1	---	FPCCS217	[-1/1] 1 if present in the PCCS 217GHz band (XFLAG_PCCS217)
1317	I1	---	FPCCS143	[-1/1] 1 if present in the PCCS 143GHz band (XFLAG_PCCS143)
1319	I1	---	FPCCS100	[-1/1] 1 if present in the PCCS 100GHz band (XFLAG_PCCS100)
1321	I1	---	FPCCS70	[-1/1] 1 if present in the PCCS 70GHz band (XFLAG_PCCS70)
1323	I1	---	FPCCS44	[-1/1] 1 if present in the PCCS 44GHz band (XFLAG_PCCS44)
1325	I1	---	FPCCS30	[-1/1] 1 if present in the PCCS 30GHz band (XFLAG_PCCS30)
1327	I1	---	FPSZ	[-1/1] 1 if present in the PCCS PSZ (XFLAG_PSZ)
1329	I1	---	FPHZ	[-1/1] 1 if present in the PCCS HZ (XFLAG_PHZ)
1331	I1	---	FHKPGCC	[-1/1] 1 if present in the Herschel HKP-GCC (XFLAG_HKPGCC)

Note (1): The position angle of the 2D ellipse is defined as the angle between the axis parallel to the Galactic plane and the major axis, counted clockwise.

Note (2): The warm background flux densities are computed using the same solid angle as for the clumps flux densities, but on the warm component map.

Note (3): FLUX_QUALITY flag as follows:

- 1 = sources with flux density estimates S/N>1 in all bands
- 2 = sources with flux density estimates S/N>1 only in 857, 545, and 353GHz Planck bands, considered as very cold source candidates
- 3 = sources without any reliable flux density estimates, listed as poor candidates

Note (4): This relative bias due to blending provides a rough estimate of the factor that should be applied on the clumps flux densities to get a corrected estimate. It has been obtained on a very simple modelling of clumps morphology and the local environment. It has therefore to be taken very carefully.

Note (5): DIST_QUALITY flag as follows:

- 0 = No distance estimate
- 1 = Single distance estimate
- 2 = Multiple distance estimates which are consistent within 1 σ
- 3 = Multiple distance estimates which are not consistent within 1 σ
- 4 = Single upper limits

Note (6): Temperature and spectral index of the warm background are based on the warm background flux density estimates obtained on the same solid angle used for clumps.

History:

Copied at <https://wiki.cosmos.esa.int/planckpla2015/index.php/Catalogues>

(End)

Patricia Vannier [CDS]

04-Jan-2017

The document above follows the rules of the [Standard Description for Astronomical Catalogues](#); from this documentation it is possible to generate *f77* program to load files [into arrays](#) or [line by line](#)

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