

GSC 2.4.2 Record Structure

DB Table name : catalogRecord

DB View : PhotoPrimary for compatibility with original version of catalogue (deprecated)

DB View : GSC242publicVOview for use with outward facing services such as VO webservice

Legacy FITS files : for use with HST ground system (deprecated)

FieldName	DataType	UCD	unit	FieldDescription	id	ucd1+	catalogRecord	Photoprimary	GSC242publicVOview	Legacy FITS files
objID	long	ID_DATA BASE		Database ID	objID	meta.record	x	x	x	
hstID	char	ID_MAIN		GSC2 Public ID	hstID	meta.id; meta.main	x	x	x	x
gsc1ID	char	ID_CROSS ID		GSC1 ID	gsc1ID	meta.id. cross	x	x	x	x
gsc2ID	char	ID_IDENTIFIER		GSC2 Internal ID	gsc2ID	meta.id	x		x	
gscID2	long			alias for gsc2ID						x
compassgsc2id	long	ID_CROSS ID		COMPASS ID	compassgsc2id	meta.id. cross	x			
GAIAAdr1sourceID	long	ID_CROSS ID		GAIA DR1 ID	GAIAsourceID	meta.id. cross	x		x	
GAIAAdr2sourceID	long	ID_CROSS ID		GAIA DR2 ID	GAIAsourceID	meta.id. cross	x		x	
usageFlag	short	CODE_M ISC		Flag for previously used guide star	usageFlag	meta.code	x			
sourceStatus	long	CODE_M ISC		Object status codes	sourceStatus	meta.code. status	x	x	x	x
ra	double	POS_EQ_RA_MAIN	degree	Right Ascension (ICRS)	ra	pos.eq.ra; meta.main	x	x	x	
RightAsc	double			alias for ra						x
dec	double	POS_EQ_DEC_MAIN	degree	Declination (ICRS)	dec	pos.eq.dec; meta.main	x	x	x	
Declination	double			alias for dec						x
epoch	float	TIME_EPOCH	year	Epoch of coordinate	epoch	time.epoch; obs	x	x	x	
PositionEpoch	float			alias for epoch						x
raErr	double	ERROR	arcsec	RA error	raErr	stat.error	x		x	
raEpsilon	float			Alias for raErr				x		x
decErr	double	ERROR	arcsec	Dec error	decErr	stat.error	x		x	
decEpsilon	float			Alias for decErr				x		x
posSource	unsignedByte	ID_CATALOG		Object coordinates source	posSource	meta.id; meta.dataset	x		x	
rapm	float	POS_EQ_PMRA	mas/year	RA proper motion	rapm	pos.pm; pos.eq.ra	x	x	x	
raProperMotion	float			alias for rapm						x
decpm	float	POS_EQ_PMDEC	mas/year	Dec proper motion	decpm	pos.pm; pos.eq.dec	x	x	x	
decProperMotion	float			alias for decpm						x
rapmErr	float	ERROR	mas/year	RA pm error	rapmErr	stat.error	x	x	x	
raProperMotion	float			alias for rapmerr						x
decpmErr	float	ERROR	mas/year	Dec pm error	decpmErr	stat.error	x	x	x	
decProperMotion	float			alias for decpmerr						x
deltaEpoch	float	TIME_INTERVAL	year	Time interval used for PM computation	deltaEpoch	time.interval	x	x	x	x
pmSource	unsignedByte	ID_CATALOG		Proper motion source	pmSource	meta.id; meta.dataset	x		x	

parallax	double	POS_PA RLX_TRIG	mas	Parallax	parallax	pos. parallax.trig	x		x	
plxErr	double	ERROR	mas	Parallax error	plxErr	stat.error	x		x	
plxSource	unsignedByte	ID_CATA LOG		Parallax source	plxSou rce	meta.id; meta. dataset	x		x	
radialVelocity	float	VELOCIT Y_HC	km/s	Radial velocity	radialV elocity	spect. dopplerVelo city	x		x	
rvErr	float	ERROR	km/s	Radial velocity error	rvErr	stat.error	x		x	
rvSource	unsignedByte	ID_CATA LOG		Radial velocity source	rvSou rce	meta.id; meta. dataset	x		x	
classification	int	CLASS_ OBJECT		Object classification code	classifi cation	meta.code. class	x		x	x
class				Alias for classification				x		
classSource	int	ID_CATA LOG		Classification source	classS ource	meta.id; meta. dataset	x		x	
variableFlag	char	CODE_V ARIAB		Flag for known variable	variabl eFlag	meta.code. status	x	x	x	x
varSource	unsignedByte	ID_CATA LOG		Variability source	varSou rce	meta.id; meta. dataset	x		x	
multipleFlag	char	CODE_MULT_FLAG		Flag for known multiple	multipl eFlag	meta.code. class	x	x	x	x
multSource	unsignedByte	ID_CATA LOG		Multiplicity source	multSo urce	meta.id; meta. dataset	x		x	
gaiaGmag	double	PHOT_M AG	mag	Gaia G band magnitude	gaiaG mag	phot.mag; em.opt	x		x	
gaiaGmagErr	float	ERROR	mag	Gaia G band magnitude error	gaiaG magErr	stat.error	x		x	
gaiaGmagCode	unsignedByte	PHOT_S YS-ID		Gaia G band code	gaiaG magCo de	meta.code	x		x	
gaiaRbpMag	double	PHOT_M AG	mag	Gaia Rbp band magnitude	gaiaRb pMag	phot.mag; em.opt	x		x	
gaiaRbpMagErr	float	ERROR	mag	Gaia Rbp band magnitude error	gaiaRb pMagE rr	stat.error	x		x	
gaiaRbpMagCo de	unsignedByte	PHOT_S YS-ID		Gaia Rbp band code	gaiaRb pMagC ode	meta.code	x		x	
gaiaBbpMag	double	PHOT_M AG	mag	Gaia Bbp band magnitude	gaiaBb pMag	phot.mag; em.opt	x		x	
gaiaBbpMagErr	float	ERROR	mag	Gaia Bbp band magnitude error	gaiaBb pMagE rr	stat.error	x		x	
gaiaBbpMagCo de	unsignedByte	PHOT_S YS-ID		Gaia Bbp band code	gaiaBb pMagC ode	meta.code	x		x	
OpgMag	float	PHOT_P HG_B	mag	Photographic O band magnitude	OpgMag	phot.mag; em.opt.B	x		x	
OpgMagErr	float	ERROR	mag	Photographic O band magnitude error	OpgMa gErr	stat.error	x		x	
OpgMagCode	unsignedByte	PHOT_S YS-ID		Photographic O band code	OpgMa gCode	meta.code	x		x	
JpgMag	float	PHOT_P HG_BJ	mag	Photographic Blue magnitude	JpgMag	phot.mag; em.opt.B	x	x	x	x
JpgMagErr	float	ERROR	mag	Photographic Blue magnitude error	JpgMa gErr	stat.error	x	x	x	x
JpgMagCode	int	PHOT_S YS-ID		Photographic Blue bandpass code	JpgMa gCode	meta.code	x	x	x	x
VpgMag	float	PHOT_P HG_V	mag	Photographic V band magnitude	VpgMag	phot.mag; em.opt.V	x		x	
VpgMagErr	float	ERROR	mag	Photographic V band magnitude error	VpgMa gErr	stat.error	x		x	
VpgMagCode	unsignedByte	PHOT_S YS-ID		Photographic V band code	VpgMa gCode	meta.code	x		x	
FpgMag	float	PHOT_P HG_R	mag	Photographic Red magnitude	FpgMag	phot.mag; em.opt.R	x	x	x	x

FpgMagErr	float	ERROR	mag	Photographic Red magnitude error	FpgMagErr	stat.error	x	x	x	x
FpgMagCode	int	PHOT_S YS-ID		Photographic Red bandpass code	FpgMagCode	meta.code	x	x	x	x
EpgMag	float	PHOT_P HG_R	mag	Photographic E band magnitude	EpgMag	phot.mag; em.opt.R	x		x	
EpgMagErr	float	ERROR	mag	Photographic E band magnitude error	EpgMagErr	stat.error	x		x	
EpgMagCode	unsignedByte	PHOT_S YS-ID		Photographic E band code	EpgMagCode	meta.code	x		x	
NpgMag	float	PHOT_P HG_I	mag	Photographic Near-IR magnitude	NpgMag	phot.mag; em.opt.I	x		x	x
Nmag				Alias for NpgMag				x		
NpgMagErr	float	ERROR	mag	Photographic Near-IR magnitude error	NpgMagErr	stat.error	x		x	x
NmagErr				Alias ffor NpgMagErr				x		
NpgMagCode	int	PHOT_S YS-ID		Photographic Near-IR bandpass code	NpgMagCode	meta.code	x		x	x
NmagCode				Alias for NpgMagCode				x		
Umag	float	PHOT_M AG_U	mag	U band magnitude	Umag	phot.mag; em.opt.U	x	x	x	x
UmagErr	float	ERROR	mag	U band magnitude error	UmagErr	stat.error	x	x	x	x
UmagCode	int	PHOT_S YS-ID		U band bandpass code	UmagCode	meta.code	x	x	x	x
UmagSource	unsignedByte	ID_CATA LOG		U band magnitude source	UmagSource	meta.id; meta. dataset	x			
Bmag	float	PHOT_M AG_B	mag	B band magnitude	Bmag	phot.mag; em.opt.B	x	x	x	x
BmagErr	float	ERROR	mag	B band magnitude error	BmagErr	stat.error	x	x	x	x
BmagCode	int	PHOT_S YS-ID		B band bandpass code	BmagCode	meta.code	x	x	x	x
BmagSource	int	ID_CATA LOG		B band magnitude source	BmagSource	meta.id; meta. dataset	x			
Vmag	float	PHOT_M AG_V	mag	V band magnitude	Vmag	phot.mag; em.opt.V	x	x	x	x
VmagErr	float	ERROR	mag	V band magnitude error	VmagErr	stat.error	x	x	x	x
VMagCode	int	PHOT_S YS-ID		V band bandpass code	VMagCode	meta.code	x	x	x	x
VmagSource	int	ID_CATA LOG		V band magnitude source	VmagSource	meta.id; meta. dataset	x			
Rmag	float	PHOT_M AG_R	mag	R band magnitude	Rmag	phot.mag; em.opt.R	x	x	x	x
RmagErr	float	ERROR	mag	R band magnitude error	RmagErr	stat.error	x	x	x	x
RmagCode	int	PHOT_S YS-ID		R band bandpass code	RmagCode	meta.code	x	x	x	x
RmagSource	unsignedByte	ID_CATA LOG		R band magnitude source	RmagSource	meta.id; meta. dataset	x			
Imag	float	PHOT_M AG_I	mag	I band magnitude	Imag	phot.mag; em.opt.I	x	x	x	x
ImagErr	float	ERROR	mag	I band magnitude error	ImagErr	stat.error	x	x	x	x
ImagCode	int	PHOT_S YS-ID		I band bandpass code	ImagCode	meta.code	x	x	x	x
ImagSource	unsignedByte	ID_CATA LOG		I band magnitude source	ImagSource	meta.id; meta. dataset	x			
SDSSuMag	float	PHOT_S DSS_U	mag	SDSS u band magnitude	SDSSuMag	phot.mag; em.opt.U	x		x	
SDSSuMagErr	float	ERROR	mag	SDSS u band magnitude error	SDSSuMagErr	stat.error	x		x	
SDSSuMagCode	unsignedByte	PHOT_S YS-ID		SDSS u band code	SDSSuMagCode	meta.code	x		x	

SDSSuMagSource	unsignedByte	ID_CATALOG		SDSS u band magnitude source	SDSSuMagSource	meta.id; meta. dataset	x			
SDSSgMag	float	PHOT_SDSS_G	mag	SDSS g band magnitude	SDSSgMag	phot.mag; em.opt.B	x		x	
SDSSgMagErr	float	ERROR	mag	SDSS g band magnitude error	SDSSgMagErr	stat.error	x		x	
SDSSgMagCode	int	PHOTSYS-ID		SDSS g band code	SDSSgMagCode	meta.code	x		x	
SDSSgMagSource	int	ID_CATALOG		SDSS g band magnitude source	SDSSgMagSource	meta.id; meta. dataset	x			
SDSSrMag	float	PHOT_SDSS_R	mag	SDSS r band magnitude	SDSSrMag	phot.mag; em.opt.R	x		x	
SDSSrMagErr	float	ERROR	mag	SDSS r band magnitude error	SDSSrMagErr	stat.error	x		x	
SDSSrMagCode	int	PHOTSYS-ID		SDSS r band code	SDSSrMagCode	meta.code	x		x	
SDSSrMagSource	int	ID_CATALOG		SDSS r band magnitude source	SDSSrMagSource	meta.id; meta. dataset	x			
SDSSiMag	float	PHOT_SDSS_I	mag	SDSS i band magnitude	SDSSiMag	phot.mag; em.opt.I	x		x	
SDSSiMagErr	float	ERROR	mag	SDSS i band magnitude error	SDSSiMagErr	stat.error	x		x	
SDSSiMagCode	int	PHOTSYS-ID		SDSS i band code	SDSSiMagCode	meta.code	x		x	
SDSSiMagSource	int	ID_CATALOG		SDSS i band magnitude source	SDSSiMagSource	meta.id; meta. dataset	x			
SDSSzMag	float	PHOT_SDSS_Z	mag	SDSS z band magnitude	SDSSzMag	phot.mag; em.opt.I	x		x	
SDSSzMagErr	float	ERROR	mag	SDSS z band magnitude error	SDSSzMagErr	stat.error	x		x	
SDSSzMagCode	unsignedByte	PHOTSYS-ID		SDSS z band code	SDSSzMagCode	meta.code	x		x	
SDSSzMagSource	unsignedByte	ID_CATALOG		SDSS z band magnitude source	SDSSzMagSource	meta.id; meta. dataset	x			
PS1yMag	float	PHOT_MAG	mag	PanSTARRS y band magnitude	PS1yMag	phot.mag; em.IR.NIR	x		x	
PS1yMagErr	float	ERROR	mag	PanSTARRS y band magnitude error	PS1yMagErr	stat.error	x		x	
PS1yMagCode	unsignedByte	PHOTSYS-ID		PanSTARRS y band code	PS1yMagCode	meta.code	x		x	
PS1ymagSource	unsignedByte	ID_CATALOG		PanSTARRS y band magnitude source	PS1ymagSource	meta.id; meta. dataset	x			
tmassJmag	double	PHOT_MAG_J	mag	2MASS J band magnitude	tmassJmag	phot.mag; em.IR.J	x		x	
Jmag				Alias for tmassJmag				x		x
tmassJmagErr	double	ERROR	mag	2MASS J band magnitude error	tmassJmagErr	stat.error	x		x	
JmagErr				Alias for tmassJmagErr				x		x
tmassJmagCode	int	PHOTSYS-ID		2MASS J band code	tmassJmagCode	meta.code	x		x	
JmagCode				Alias for tmassJmagCode				x		x
tmassJmagSource	int	ID_CATALOG		2MASS J band magnitude source	tmassJmagSource	meta.id; meta. dataset	x			
tmassHmag	double	PHOT_MAG_H	mag	2MASS H band magnitude	tmassHmag	phot.mag; em.IR.H	x		x	
Hmag				Alias for tmassHmag				x		x
tmassHmagErr	double	ERROR	mag	2MASS H band magnitude error	tmassHmagErr	stat.error	x		x	

HmagErr				Alias for tmassHmagErr				x		x
tmassHmagCode	int	PHOT_S YS-ID		2MASS H band code	tmass Hmag Code	meta.code	x		x	
HmagCode				Alias for tmassHmagCode				x		x
tmassHmagSource	int	ID_CATA LOG		2MASS H band magnitude source	tmass Hmag Source	meta.id; meta. dataset	x			
tmassKsmag	double	PHOT_M AG_K	mag	2MASS Ks band magnitude	tmass Ksmag	phot.mag; em.IR.K	x		x	
Kmag				Alias for tmassKsmag				x		x
tmassKsmagErr	double	ERROR	mag	2MASS Ks band magnitude error	tmass Ksmag Err	stat.error	x		x	
KmagErr				Alias for tmassKsmagErr				x		x
tmassKsmagCode	int	PHOT_S YS-ID		2MASS Ks band code	tmass Ksmag Code	meta.code	x		x	
KmagCode				Alias for tmassKsmagCode				x		x
tmassKsmagSource	int	ID_CATA LOG		2MASS Ks band magnitude source	tmass Ksmag Source	meta.id; meta. dataset	x			
VistaZMag	float	PHOT_M AG	mag	VISTA Z band magnitude	VistaZ Mag	phot.mag; em.IR.NIR	x		x	
VistaZMagErr	float	ERROR	mag	VISTA Z band magnitude error	VistaZ MagErr	stat.error	x		x	
VistaZMagCode	unsignedByte	PHOT_S YS-ID		VISTA Z band code	VistaZ MagCo de	meta.code	x		x	
VistaZmagSource	unsignedByte	ID_CATA LOG		VISTA Z band magnitude source	VistaZ magSo urce	meta.id; meta. dataset	x			
VistaYmag	float	PHOT_M AG	mag	VISTA Y band magnitude	VistaY mag	phot.mag; em.IR.NIR	x		x	
VistaYMagErr	float	ERROR	mag	VISTA Y band magnitude error	VistaY MagErr	stat.error	x		x	
VistaYMagCode	unsignedByte	PHOT_S YS-ID		VISTA Y band code	VistaY MagCo de	meta.code	x		x	
VistaYmagSource	unsignedByte	ID_CATA LOG		VISTA Y band magnitude source	VistaY magSo urce	meta.id; meta. dataset	x			
VistaKmag	float	PHOT_M AG_K	mag	VISTA K band magnitude	VistaK mag	phot.mag; em.IR.K	x		x	
VistaKMagErr	float	ERROR	mag	VISTA K band magnitude error	VistaK MagErr	stat.error	x		x	
VistaKMagCode	unsignedByte	PHOT_S YS-ID		VISTA K band code	VistaK MagCo de	meta.code	x		x	
VistaKmagSource	unsignedByte	ID_CATA LOG		VISTA K band magnitude source	VistaK magSo urce	meta.id; meta. dataset	x			
WISEw1Mag	float	PHOT_IR _3.4	mag	WISE W1 (3.4um) band magnitude	WISEw 1Mag	phot.mag; em.IR.3- 4um	x		x	
WISEw1MagErr	float	ERROR	mag	WISE W1 (3.4um) band magnitude error	WISEw 1MagE rr	stat.error	x		x	
WISEw1MagCode	unsignedByte	PHOT_S YS-ID		WISE W1 (3.4um) band code	WISEw 1MagC ode	meta.code	x		x	
WISEw1MagSource	unsignedByte	ID_CATA LOG		WISE W1 (3.4um) band magnitude source	WISEw 1MagS ource	meta.id; meta. dataset	x			
WISEw2Mag	float	PHOT_IR _4.2	mag	WISE W2 (4.6um) band magnitude	WISEw 2Mag	phot.mag; em.IR.4- 8um	x		x	
WISEw2MagErr	float	ERROR	mag	WISE W2 (4.6um) band magnitude error	WISEw 2MagE rr	stat.error	x		x	

WISEw2MagCode	unsignedByte	PHOT_S YS-ID		WISE W2 (4.6um) band code	WISEw 2MagC ode	meta.code	x		x	
WISEw2MagSource	unsignedByte	ID_CATA LOG		WISE W2 (4.6um) band magnitude source	WISEw 2MagS ource	meta.id ; meta. dataset	x			
WISEw3Mag	float	PHOT_F LUX_IR_ 12	mag	WISE W3 (12um) band magnitude	WISEw 3Mag	phot.flux. density;em. IR.8-15um	x		x	
WISEw3MagErr	float	ERROR	mag	WISE W3 (12um) band magnitude error	WISEw 3MagE rr	stat.error	x		x	
WISEw3MagCode	unsignedByte	PHOT_S YS-ID		WISE W3 (12um) band code	WISEw 3MagC ode	meta.code	x		x	
WISEw3MagSource	unsignedByte	ID_CATA LOG		WISE W3 (12um) band magnitude source	WISEw 3MagS ource	meta.id ; meta. dataset	x			
WISEw4Mag	float	PHOT_F LUX_IR_ 25	mag	WISE W4 (22um) band magnitude	WISEw 4Mag	phot.flux. density;em. IR.15-30um	x		x	
WISEw4MagErr	float	ERROR	mag	WISE W4 (22um) band magnitude error	WISEw 4MagE rr	stat.error	x		x	
WISEw4MagCode	unsignedByte	PHOT_S YS-ID		WISE W4 (22um) band code	WISEw 4MagC ode	meta.code	x		x	
WISEw4MagSource	unsignedByte	ID_CATA LOG		WISE W4 (22um) band magnitude source	WISEw 4MagS ource	meta.id ; meta. dataset	x			
FUVmag	float	PHOT_M AG_UV	mag	GALEX FUV band magnitude	FUVm ag	phot.mag; em.UV.100- 200nm	x		x	
FUVmagErr	float	ERROR	mag	GALEX FUV band magnitude error	FUVm agErr	stat.error	x		x	
FUVmagCode	unsignedByte	PHOT_S YS-ID		GALEX FUV band code	FUVm agCode	meta.code	x		x	
FUVmagSource	unsignedByte	ID_CATA LOG		GALEX FUV band magnitude source	FUVm agSou rce	meta.id ; meta. dataset	x			
NUVmag	float	PHOT_M AG_UV	mag	GALEX NUV band magnitude	NUVm ag	phot.mag; em.UV	x		x	
NUVmagErr	float	ERROR	mag	GALEX NUV band magnitude error	NUVm agErr	stat.error	x		x	
NUVmagCode	unsignedByte	PHOT_S YS-ID		GALEX NUV band code	NUVm agCode	meta.code	x		x	
NUVmagSource	unsignedByte	ID_CATA LOG		GALEX NUV band magnitude source	NUVm agSou rce	meta.id ; meta. dataset	x			
gsc2semiMajorAxis	float	OBS_PA RAM	pixels	SemiMajor diameter of object	gsc2se miMajo rAxis	phys. angSize. smajAxis	x	x	x	
semiMajorAxis	float			alias for gsc2semiMajorAxis						x
gsc2eccentricity	float	OBS_PA RAM		Eccentricity of object	gsc2ec centric ity	phys.size. axisRatio	x	x	x	
eccentricity	float			alias for gsc2eccentricity						x
gsc2positionAngle	float	OBS_PA RAM	degree	Position Angle (North thru East)	gsc2po sitionA ngle	pos.posAng	x	x	x	
positionAngle	float			alias for gsc2positionAngle						x
mag	float	PHOT_M AG	mag	'best' available mag	mag	phot.mag			x	