

# **TERAPIX**

## **release**

04 février 2005

# T0001

- Informations releases
- T0001 summary <http://terapix.iap.fr/>
- Règles d'accès aux données
- Remerciements: MegaPrime/MegaCam , CADC-Terapix: message du Directeur du CFHT très bientôt.
- Connectez vous au CADC: les statistiques d'accès servent de sondage sur l'intérêt des communautés pour le CFHTLS

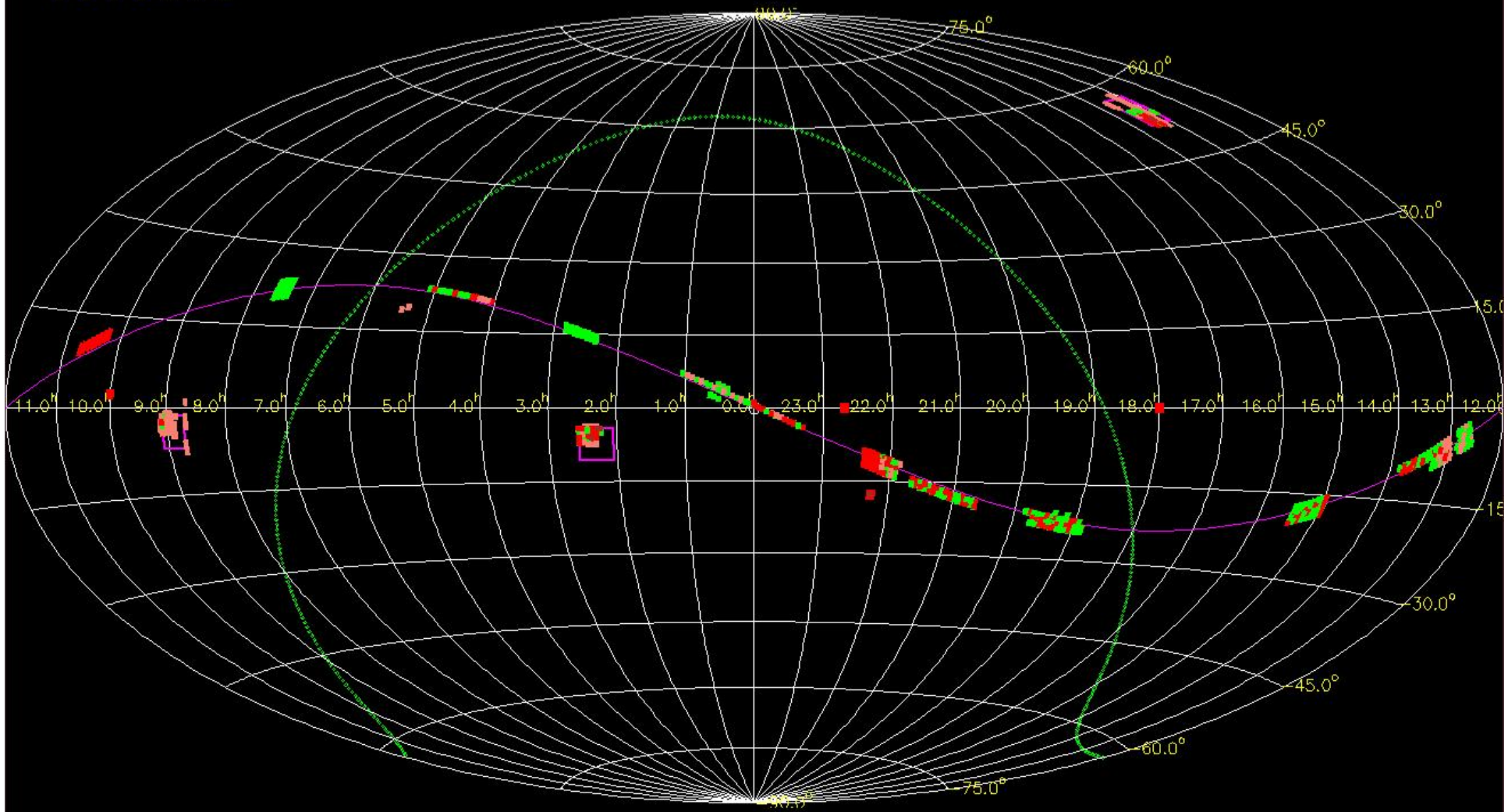
## PIs:

- PIs on request: 25% of Terapix activities :
  - Done: Le Fèvre (F) , Dougados (F) , Demers (C) , Cayatte (F), Mellier (F), Petitjean (F) , Seymour (F) , Davidge (C), Sanders (H), Harris (C)
  - En cours: Robin (F)

# T0002 data

Terapix total with PI +calibration: 8523 images  
T0002 release: Deep+Wide+Very Wide+calibration: 7426 images  
Deep+Wide+Very Wide (no calibration): 6110 images  
Deep+Wide+Very Wide (no calibration) starting June 1st, 2003: 5719 images

----- Legend -----  
----- g -----  
----- r -----  
----- u -----  
----- z -----

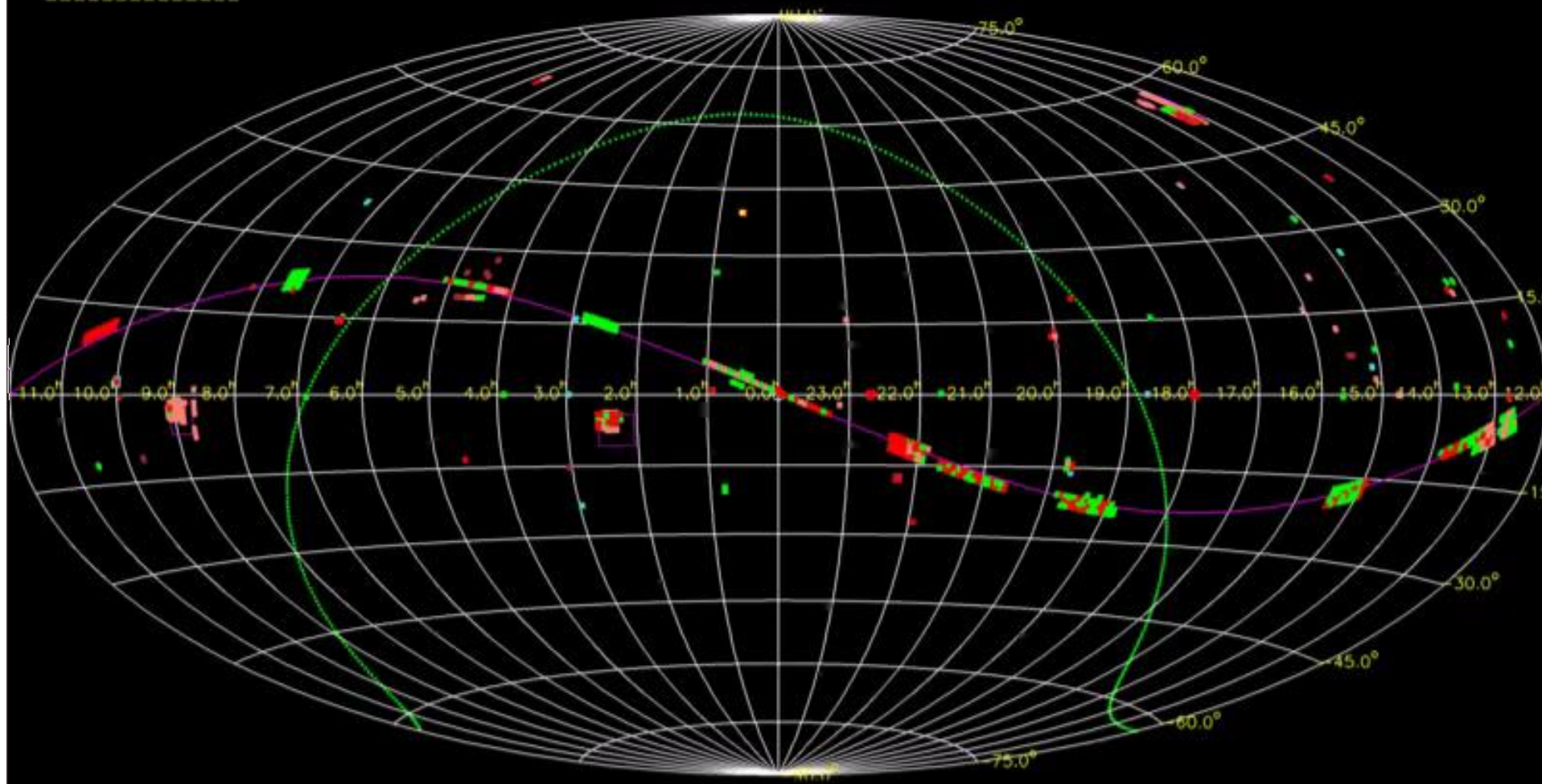


Set and drag Button 1 to (re)set selection, Button 2 to finish.  
command line : skywatcher -s presurvey+wide+verywide+deep

Terapix total with PI +calibration:

8523 images

T0002 data



command line : skywatcher -d png -H 0 -M 0

# T0002 step 1: 100% done

- ftp from CADC (Terapix task)
- Image quality assessment
- Creation of individual weight maps
- Creation of individual flag maps
- Check PSF, galaxy counts, sky background
- Statistics on image: global and for each CCD
- Eye-check and grade+comment A,B,C and D
- Put on output disks
- ftp to CADC (CADC task)
- Put on a public page for CFHTLS registered users only:  
<http://clix.iap.fr/steeringroup/>  
This is an information page: no data access from this URL

# T0002 step 2: 0% done

- Do image selection (different for each survey)
- Astrometry + photometry+ relevant plots
- Swarp + Stacking + field to field flux rescaling:
  - image + weightmaps +
  - catalogs +
  - Masks
  - .head file with astrometric calibration information
- Production of chi2 image, dust image
- Output quality assessment = same as STEP1 + automated completeness limit
- Grade each stack
- Put on output disk
- ftp to CADC (CADDC task)
  - Put on a public page for CFHTLS registered users
    - Terapix non –public page:
      - <http://clix.iap.fr/spica/admin/admin-spica/survey/>

# T0002 survey production

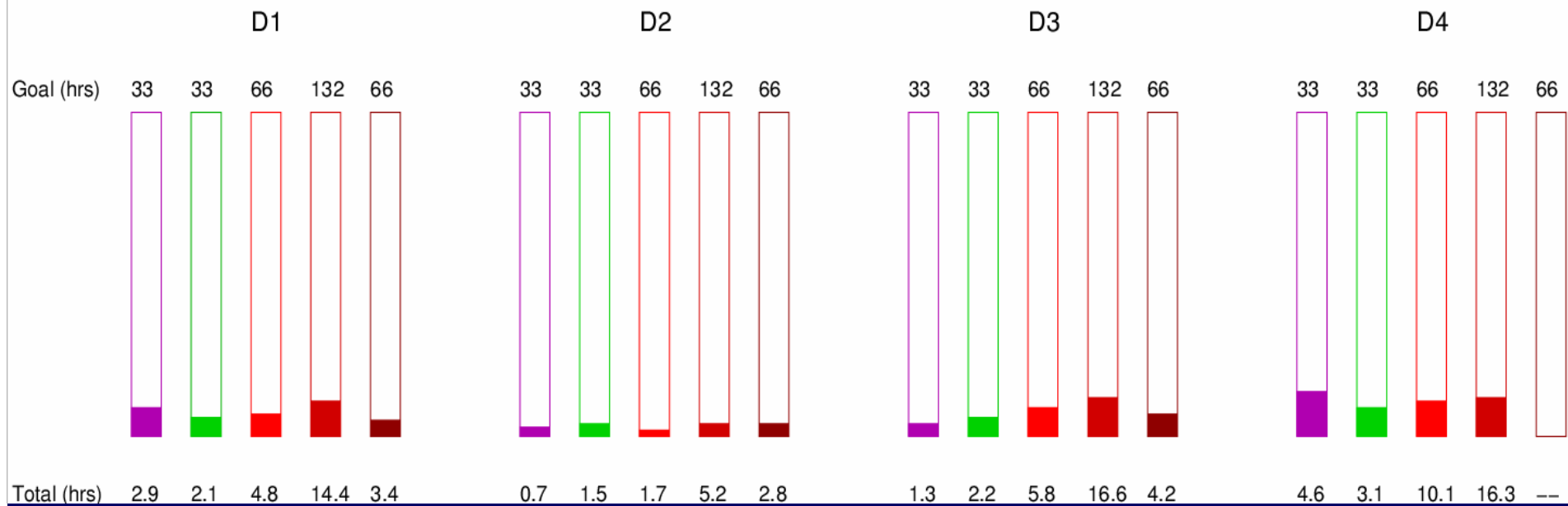
- Deep: full stacking for each filter
- Wide: One stacking per filter and per wide pointing, centered according to wide targets registered at <http://terapix.iap.fr/>
- Very wide: each image astrometred , swarped and combined in one single 19000x19000 image, but no stack done (for object proper motion)



# Data of the first CFHTLS release T0001

Only data on the four CFHTLS deep fields

## CFHTLS T0001 Release summary





# T0002 selection

- All data From June 1st, 2003 to Nov. 22, 2004
- Airmass < 1.5
- Skyprobe available (interpolated)
- Terapix Grade: A+B
- Exp. time > 60 sec.

- Seeing:

Runid L02/L05

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Seeing\_max = 1.1 for i and z

Seeing\_max = 1.1 for r and g

Seeing\_max = 1.3 for u

Runid L01/L04

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Seeing\_max = 1.1 for i and z and r

Seeing\_max = 1.1 for g

Seeing\_max = 1.4 for u

Runid L03/L06

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Seeing\_max = 1.2 for i and z

Seeing\_max = 1.2 for r and g

Seeing\_max = 1.5 for u

# T0002 stack pre-registration

## Remaining stacks

Pending processes (71)										
Image	Stack Mode	Release Version	RunID/Object	Filter	Ra	Dec	Node	Scamp files	Swarp files	
CFHTLS_D_g_022559-042939	4	0011	D	g	02 h 25 m 59	-04 ° 29 ' 39	mix3	149	100	
CFHTLS_D_g_022559-042939	4	0010	D	g	02 h 25 m 59	-04 ° 29 ' 39	mix3	149	100	
CFHTLS_D_g_100028+021229	4	0010	D	g	10 h 00 m 28	+02 ° 12 ' 29	mix3	149	29	
CFHTLS_D_g_100028+021229	4	0011	D	g	10 h 00 m 28	+02 ° 12 ' 29	mix3	149	29	
CFHTLS_D_g_141927+524056	4	0011	D	g	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	53	
CFHTLS_D_g_141927+524056	4	0010	D	g	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	53	
CFHTLS_D_g_221531-174356	4	0010	D	g	22 h 15 m 31	-17 ° 43 ' 56	mix3	149	104	
CFHTLS_D_g_221531-174356	4	0011	D	g	22 h 15 m 31	-17 ° 43 ' 56	mix3	149	104	
CFHTLS_D_i_022559-042939	4	0011	D	i	02 h 25 m 59	-04 ° 29 ' 39	mix3	239	239	
CFHTLS_D_i_022559-042939	4	0010	D	i	02 h 25 m 59	-04 ° 29 ' 39	mix3	239	239	
CFHTLS_D_i_100028+021229	4	0011	D	i	10 h 00 m 28	+02 ° 12 ' 29	mix3	149	73	
CFHTLS_D_i_100028+021229	4	0010	D	i	10 h 00 m 28	+02 ° 12 ' 29	mix3	149	73	
CFHTLS_D_i_141927+524056	4	0011	D	i	14 h 19 m 27	+52 ° 40 ' 56	mix3	180	180	
CFHTLS_D_i_141927+524056	4	0010	D	i	14 h 19 m 27	+52 ° 40 ' 56	mix3	180	180	
CFHTLS_D_i_221531-174356	4	0010	D	i	22 h 15 m 31	-17 ° 43 ' 56	mix3	246	246	
CFHTLS_D_i_221531-174356	4	0011	D	i	22 h 15 m 31	-17 ° 43 ' 56	mix3	246	246	
CFHTLS_D_r_022559-042939	4	0011	D	r	02 h 25 m 59	-04 ° 29 ' 39	mix3	161	161	
CFHTLS_D_r_022559-042939	4	0010	D	r	02 h 25 m 59	-04 ° 29 ' 39	mix3	161	161	
CFHTLS_D_r_100028+021229	4	0010	D	r	10 h 00 m 28	+02 ° 12 ' 29	mix3	149	46	
CFHTLS_D_r_100028+021229	4	0011	D	r	10 h 00 m 28	+02 ° 12 ' 29	mix3	149	46	
CFHTLS_D_r_141927+524056	4	0010	D	r	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	149	
CFHTLS_D_r_141927+524056	4	0011	D	r	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	149	
CFHTLS_D_r_221531-174356	4	0010	D	r	22 h 15 m 31	-17 ° 43 ' 56	mix3	188	188	
CFHTLS_D_r_221531-174356	4	0011	D	r	22 h 15 m 31	-17 ° 43 ' 56	mix3	188	188	
CFHTLS_D_u_141927+524056	4	0011	D	u	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	7	
CFHTLS_D_u_141927+524056	4	0010	D	u	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	7	
CFHTLS_D_u_221531-174356	4	0010	D	u	22 h 15 m 31	-17 ° 43 ' 56	mix3	149	60	
CFHTLS_D_u_221531-174356	4	0011	D	u	22 h 15 m 31	-17 ° 43 ' 56	mix3	149	60	
CFHTLS_D_z_022559-042939	4	0011	D	z	02 h 25 m 59	-04 ° 29 ' 39	mix3	150	150	
CFHTLS_D_z_022559-042939	4	0010	D	z	02 h 25 m 59	-04 ° 29 ' 39	mix3	150	150	
CFHTLS_D_z_100028+021229	4	0011	D	z	10 h 00 m 28	+02 ° 12 ' 29	mix3	149	30	
CFHTLS_D_z_141927+524056	4	0010	D	z	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	75	
CFHTLS_D_z_141927+524056	4	0011	D	z	14 h 19 m 27	+52 ° 40 ' 56	mix3	149	75	
CFHTLS_D_z_221531-174356	4	0011	D	z	22 h 15 m 31	-17 ° 43 ' 56	mix3	149	144	
CFHTLS_D_z_221531-174356	4	0010	D	z	22 h 15 m 31	-17 ° 43 ' 56	mix3	149	144	
CFHTLS_W_g_021410-050800	4	0011	W	g	02 h 14 m 10	-05 ° 08 ' 00	pix9	289	8	
CFHTLS_W_g_021800-060359	4	0011	W	g	02 h 18 m 00	-06 ° 03 ' 59	pix9	169	5	
CFHTLS_W_g_022149-060359	4	0011	W	g	02 h 21 m 49	-06 ° 03 ' 59	pix9	168	6	
CFHTLS_W_g_142939+514230	4	0011	W	g	14 h 29 m 39	+51 ° 42 ' 30	pix9	111	6	
CFHTLS_W_g_142953+523831	4	0011	W	g	14 h 29 m 53	+52 ° 38 ' 31	pix9	128	7	
CFHTLS_W_i_021410-041200	4	0011	W	i	02 h 14 m 10	-04 ° 12 ' 00	pix9	279	7	
CFHTLS_W_i_021410-050800	4	0011	W	i	02 h 14 m 10	-05 ° 08 ' 00	pix9	289	7	
CFHTLS_W_i_021800-041200	4	0011	W	i	02 h 18 m 00	-04 ° 12 ' 00	pix9	169	6	

RunID/Object	Number of remaining stack
D	35
W	36

Node	Number of remaining stack
mix3	35
pix9	37

Filter	Number of remaining stack
g.MP9401	14
i.MP9701	25
r.MP9601	9
u.MP9301	7
z.MP9801	17

Image	Node	Longest stack remaining
CFHTLS_D_i_221531-174356	mix3	246
CFHTLS_D_i_221531-174356	mix3	246
CFHTLS_D_i_022559-042939	mix3	239
CFHTLS_D_i_022559-042939	mix3	239
CFHTLS_D_r_221531-174356	mix3	188
CFHTLS_D_r_221531-174356	mix3	188
CFHTLS_D_i_141927+524056	mix3	180
CFHTLS_D_i_141927+524056	mix3	180
CFHTLS_D_r_022559-042939	mix3	161
CFHTLS_D_r_022559-042939	mix3	161

<http://terapix.iap.fr/>

# Deep T0001 and T0002

## Number of fields selected

Field-filter	T0001	T0002	T2/T1
D1-g	37	89	2.4
D2-g	24	29	1.2
D3-g	37	52	1.4
D4-g	56	104	1.9
D1-i	100	235	2.4
D2-i	38	68	1.8
D3-i	127	181	1.4
D4-i	118	248	2.1
D1-r	48	160	3.3
D2-r	17	42	2.5
D3-r	64	146	2.3
D4-r	78	191	2.4
D1-u	16	?	
D2-u	7	7	1.0
D3-u	7	7	1.0
D4-u	28	53	1.9
D1-z	34	148	4.4
D2-z	28	30	1.1
D3-z	42	74	1.8
D4-z	-	141	>>1

## 2.4 Summary

The following table summarizes the filenames of all TERAPIX products that will be delivered to CADC. The table is divided according to the three different TERAPIX processing modes.

	« on the fly » mode	« image by image » mode	« TERAPIX release » mode	
<b>Detrented images</b>	546891p.fits	546891p.fits	546891p.fits	5468902p.fits
<b>Keywords used in header</b>			Object name Filter	
<b>Processed data</b>	546891p.head <sup>10</sup>	546891p_V0001.head	CFHTLS_W_r_135934+533330_T0001.fits 546891p.head and 5468902p.head	
<b>Weight-map and flag-map</b>	546891p_weight.fits 546891p_flag.fits		CFHTLS_W_r_135934+533330_T0001_weight.fits	
<b>Catalogue</b>	546891p_diag.fits 546891p.ldac	546891p_V0001.ldac	CFHTLS_W_r_135934+533330_T0001_diag.fits CFHTLS_W_r_135934+533330_T0001.ldac	
<b>Auxiliary</b>	546891p_bkg_histo.png 546891p_bkg_histo.ps 546891p_bkg_m.png 546891p_ell.png 546891p_fwhm_histo.png 546891p_fwhm_histo.ps 546891p_gal_histo.png 546891p_gal_histo.ps 546891p_m_med.png 546891p_m.png 546891p_psf_m.png 546891p_star_histo.png 546891p_star_histo.ps 546891p_wmm_med.png 546891p_wmm.png 546891p.xml 546891p_rhmag.png 546891p_rhmag.ps 546891p_rhmag_gal.png 546891p_rhmag_gal.ps 546891p_rhmag_star.png 546891p-rhmag_star.ps	546891p_V0001_asterror1d_1.png 546891p_V0001_asterror2d_1.png 546891p_V0001_ast_referror1d_1.png 546891p_V0001_distortion_1.png 546891p_V0001_figroups_1.png 546891p_V0001_phot_error_1.png 546891p_V0001_zpcorr_1.png 546891p_V0001_scamp_accept.xml 546891p_V0001_scamp.xml 546891p_V0001_comptness.png 546891p_V0001.reg	CFHTLS_W_r_135934+533330_T0001_bkg_m.png CFHTLS_W_r_135934+533330_T0001_m.png CFHTLS_W_r_135934+533330_T0001_m_med.png CFHTLS_W_r_135934+533330_T0001_psf_m.png CFHTLS_W_r_135934+533330_T0001_fwhm_histo.png CFHTLS_W_r_135934+533330_T0001_fwhm_histo.ps CFHTLS_W_r_135934+533330_T0001_star_histo.png CFHTLS_W_r_135934+533330_T0001_star_histgo.ps CFHTLS_W_r_135934+533330_T0001_gal_histo.png CFHTLS_W_r_135934+533330_T0001_gal_histo.ps CFHTLS_W_r_135934+533330_T0001_wmm.png CFHTLS_W_r_135934+533330_T0001_wmm_med.png CFHTLS_W_r_135934+533330_T0001_ell.png CFHTLS_W_r_135934+533330_T0001_ell.ps CFHTLS_W_r_135934+533330_T0001_rhmag.png CFHTLS_W_r_135934+533330_T0001_rhmag.ps CFHTLS_W_r_135934+533330_T0001_rhmag_gal.png CFHTLS_W_r_135934+533330_T0001_rhmag_gal.ps CFHTLS_W_r_135934+533330_T0001_rhmag_star.png CFHTLS_W_r_135934+533330_T0001_rhmag_star.ps CFHTLS_W_r_135934+533330_T0001.cmd CFHTLS_W_r_135934+533330_T0001_protospf.fits CFHTLS_W_r_135934+533330_T0001.XML CFHTLS_W_r_135934+533330_T0001_asterror1d_1.png CFHTLS_W_r_135934+533330_T0001_asterror2d_1.png CFHTLS_W_r_135934+533330_T0001_ast_referror1d_1.png CFHTLS_W_r_135934+533330_T0001_distortion_1.png CFHTLS_W_r_135934+533330_T0001_figroups_1.png CFHTLS_W_r_135934+533330_T0001_phot_error_1.png CFHTLS_W_r_135934+533330_T0001_zpcorr_1.png CFHTLS_W_r_135934+533330_T0001_scamp_accept.xml CFHTLS_W_r_135934+533330_T0001_scamp.xml CFHTLS_W_r_135934+533330_T0001_dust.fits CFHTLS_W_gri_135934+533330_T0001_diagcc.png <sup>11</sup> CFHTLS_W_gri_135934+533330_T0001_chi2.png <sup>12</sup> CFHTLS_W_r_135934+533330_T0001_comptness.png CFHTLS_W_r_135934+533330_T0001.reg	

Some files in PNG or FITS format are also available in PS format. For further details, see the files description in 0.

All FITS image produced by TERAPIX are coded in float 32 bits, except the flag map image which is in integer 8 bits

Terapix release  
products to  
CADC

# Release date

Start T0002 Step 2: Feb. 05, 2005

Expected end : Feb. 25, 2005

CADC : 2 weeks

Release March 10, 2005 ?

T0003: (1000 more images arrived already)

Start STEP1 : May 1st, 2005

Start STEP2: May 25, 2005

End STEP2 : June 15, 2005

Expected release date: June 31, 2005