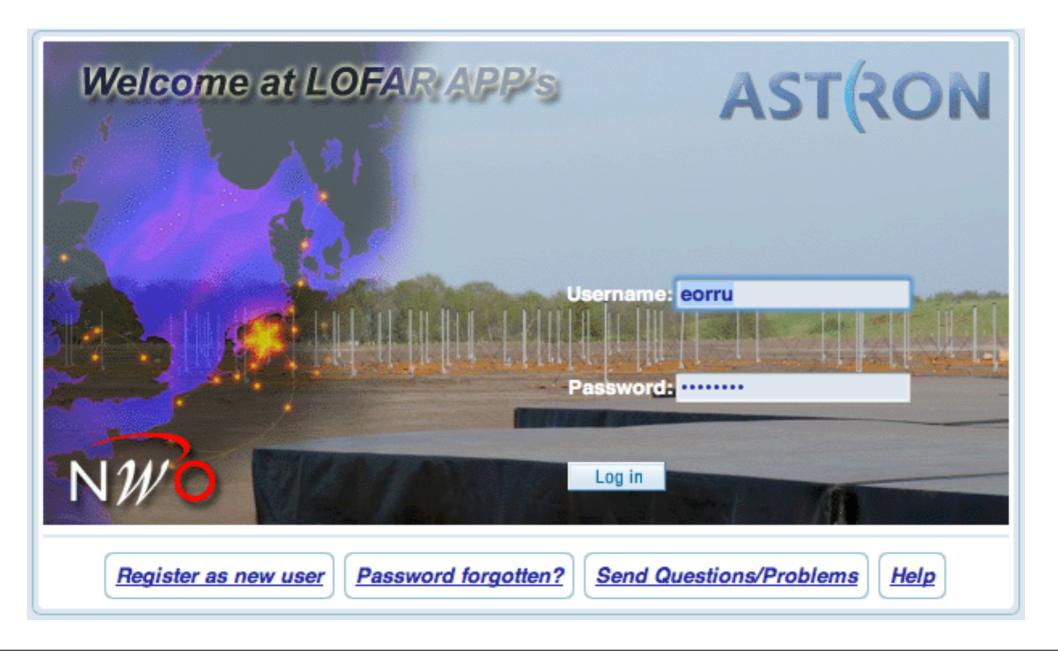
### Status of MSSS "automatic" processing

#### Emanuela Orru' & RO



## Automatic pipeline

- based on a script runcalibrate (Swinbank) and ued for the software characterization
- Calibrator pipeline: demix and calibrate the calibrator (3rd beam)
- Target pipeline: demix and transfer solutions from calibrator to the targets (1st and 2nd beam)
- Imaging pipeline: concatenate the SBs into Bands and the timeslices, run a phase only calibration, imaging and produces a source catalogue

## LBA MSSS: Dec 2011 Jan-Feb-Mar-Apr 2012

□ □ • 9 Slices Dec24 20:18	Add Datalla		Dec24 20:18 MSSS LBA 9-slices
□ □ □ 9_Slices_Dec24_20:18 □ □ □ Slice 1	Add Details		
	Add Details	fluiched	MSSS - Slice 1
⊕ □ Pos 123.400216667 48	Add Details	finished	[40309] Pos 123.400216667 48.217295 (LBA) at 2011-12-24T21:15:00 for 2 min
□ □ Pos 126.818181667 46	Add Details	finished	[40310] Pos 126.818181667 46.16 (LBA) Multi-Beam at 2011-12-24T21:18:00 for 11 min
Pos 126.818181667 46	Details 1	finished	Pos 126.818181667 46.16 (LBA) Multi-Beam #1 at 2011-12-24T21:18:00 for 11 min
D - 100 04045075 54	Detaile 60	Al-l-b-d	Dec 400 04045075 54 00 (I DA) Malli Deces #0 et 0044 40 0470440.00 fee 44 min
Pos 133.84615375 51.	Details	finished	Pos 133.84615375 51.93 (LBA) Multi-Beam #2 at 2011-12-24T21:18:00 for 11 min
Pos 123.400216667 48	Details T	finished	Pos 102 400216667 49 217205 /I PA) Multi Poom #2 at 2011 12 24T21:10:00 for 11 min
Pos 123.400216667 48	2512115	IIIIsiieu	Pos 123.400216667 48.217295 (LBA) Multi-Beam #3 at 2011-12-24T21:18:00 for 11 min
Pos 123.75 90.0	Details T	finished	Pos 123.75 90.0 (LBA) Multi-Beam #4 at 2011-12-24T21:18:00 for 11 min
T 66 125.70 00.0		IIIIIIIII	1 00 120.70 00.0 (ED7) Main Boain #4 at 2011 12 24121110.00 101 11 11111
☐ Target Pipeline 1.1	DPS Details	opened	Target Pipeline 1.1
☐ Target Pipeline 1.2	DPS Details	opened	Target Pipeline 1.2
Calibrator Pipeline	DPS Details	opened	Calibrator Pipeline
⊕ ☐ Slice 2	Add Details		MSSS - Slice 2
⊕ ☐ Slice 3	Add Details		MSSS - Slice 3
Slice 4	Add Details		MSSS - Slice 4
⊕ 📄 🗋 Slice 5	Add Details		MSSS - Slice 5
⊕ ☐ Slice 6	Add Details		MSSS - Slice 6
Slice 7	Add Details		MSSS - Slice 7
⊕ ☐ Slice 8	Add Details		MSSS - Slice 8
□ □ Slice 9	Add Details		MSSS - Slice 9
	Add Details	finished	[40373] Pos 123.400216667 48.217295 (LBA) at 2011-12-25T05:15:00 for 2 min
□ □ つ Pos 126.818181667 46	Add Details	finished	[40374] Pos 126.818181667 46.16 (LBA) Multi-Beam at 2011-12-25T05:18:00 for 11 min
Pos 126.818181667 46	Details 1	finished	Pos 126.818181667 46.16 (LBA) Multi-Beam #1 at 2011-12-25T05:18:00 for 11 min
Pos 133.84615375 51.	Details 1	finished	Pos 133.84615375 51.93 (LBA) Multi-Beam #2 at 2011-12-25T05:18:00 for 11 min
Pos 123.400216667 48	Details 1	finished	Pos 123.400216667 48.217295 (LBA) Multi-Beam #3 at 2011-12-25T05:18:00 for 11 min
Pos 123.75 90.0	Details 📬	finished	Pos 123.75 90.0 (LBA) Multi-Beam #4 at 2011-12-25T05:18:00 for 11 min
☐ ∰ Target Pipeline 9.1	DPS Details	opened	Target Pipeline 9.1
☐ Target Pipeline 9.2	DPS Details	opened	Target Pipeline 9.2
Calibrator Pipeline	DPS Details	opened	Calibrator Pipeline 9
☐ ∰ Imaging Pipeline X	DPS Details	opened	Imaging Pipeline [0.PX]
☐ ∰ Imaging Pipeline Y	DPS Details	opened	Imaging Pipeline [0.PY]

#### Old Runs to restart 🌣 🗎

File Edit View Insert Format Data Tools Help All changes saved in Drive

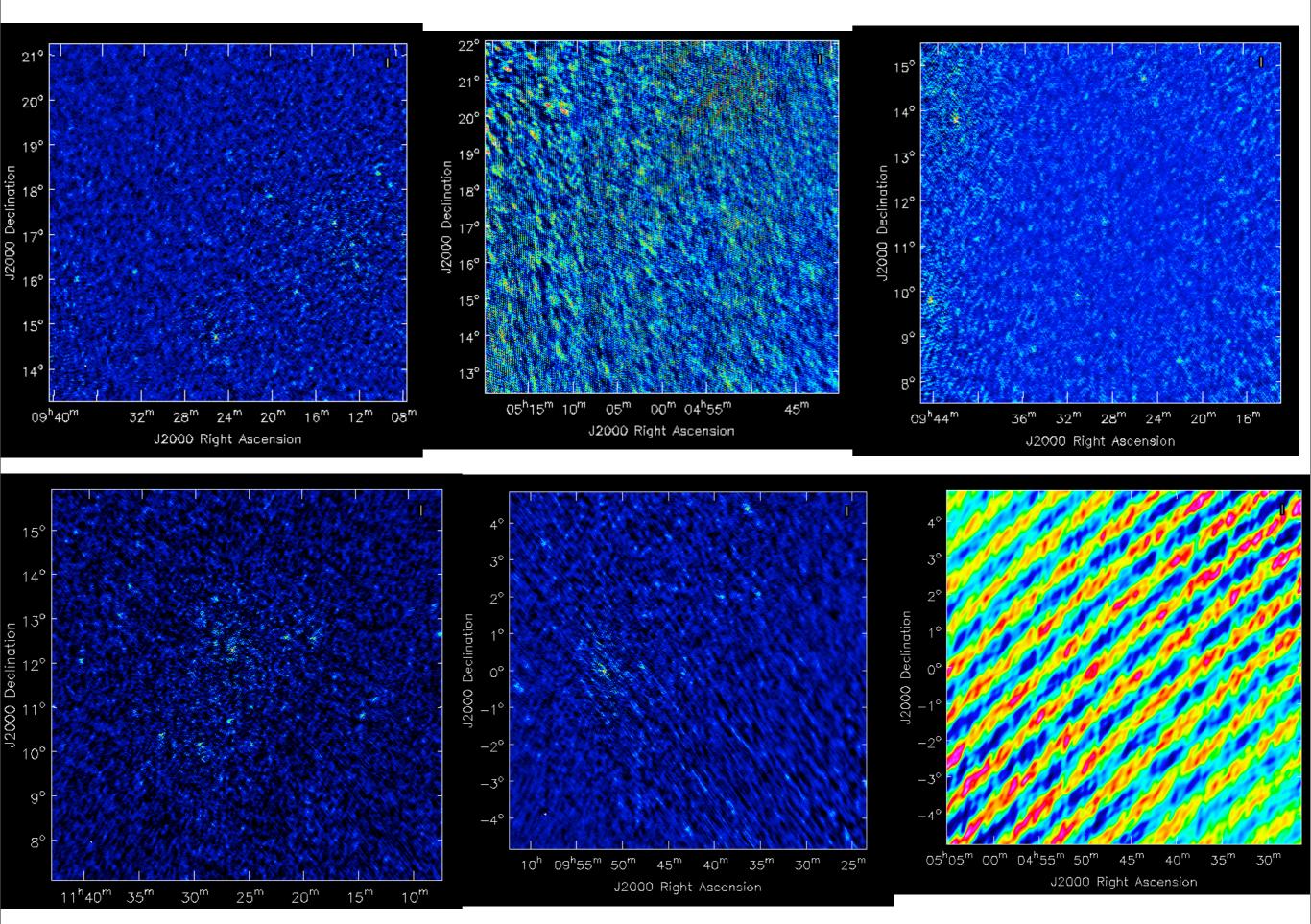
きゃっか・ア	\$ % 123 - 10pt -	B Abc A - M - H -	<b>≣</b> - <b>3</b> - <b>3 5 7 1 1 1 1 1 1</b>
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f×	9_Slices_Jan28_20:48 h	

$T \times$	9_Slices_Jan28_20:48 h								
	Α	В	С	D	E	F	G	н	1
1	9_Slices_Jan28_20:48 h	10/11/2012	rimandata xche mom bug				L68868 L68867 no images	ndppp failed: non of the input ms were copied	Complete timeslic missing: ndppp failed to create subband group.
2	9_Slices_Feb03_20.03	9/28/2012		21367.896938	5.93552692722222	L66402		,	
3	9_Slices_Feb03_20.03	9/28/2012		34580.909338	9.60580814944444	L66403 ok			
4	9_Slices_Feb03_20:18 h	10 1710/2012		29237.848075	8.12162446527778	L68795 ok	L68794 no images		
5	9_Slices_Mar09_13:13	10/31/2012	rimandata xche mom bug	21574.275375	5.99285427083333	L65321 ok			
6	9_Slices_Mar09_13:28	10/31/2012			0	L66212 ok			
7	9_Slices_Mar09_13:28	10/31/2012		33950.838713	9.43078853138889	L66211 ok			
8	9_Slices_Mar09_13:43	10/31/2012		31769.21965	8.82478323611111	L66243 ok	L66244 no images		
9					0				
10	9_Slices_Mar10_12:23	10/2/2012			0	L66963 ok			
11	9_Slices_Mar10_12:23	10/2/2012		28425.7926	7.8960535	L66964 ok			
12	9_Slices_Mar10_12:38	10/2/2012		40790.57635	11.3307156527778	L67034 ok	L67033 no images		
13	9_Slices_Mar10_12:53	19/09-02/10 /2012			0		L67129 L67128 no images		no possible to RESTART issue mom status
14	9_Slices_Mar10_19:13	19/09-03/10 /2012			0		L67245 L67244 no images		no possible to RESTART issue mom status
15	9_Slices_Mar10_19:28	19/09-03/10 /2012			0		L67242 L67243 no images		no possible to RESTART issue mom status
16	?????	9/27/2012	MSSS_pipelines_27 09-2012		0				
17	9_Slices_Mar10_19:43	12/10/2012			0		L69060 L69059 no images		no possible to RESTART issue i mom status
18	9_Slices_Mar10_19:58	12/10/2012			0		69142 69141 no images		
19	9_Slices_Mar11_20:18	12-13/10/2012			0		69200 69199 no images		
20	9_Slices_Mar11_20:33	13/10/2012			0		69261 69262 no images		
21	9_Slices_Mar11_20:48	13/10/2012			0		69328 69327 no images		
22	9_Slices_Mar17_11:33	issues in mom			0		67396 no images		
23	9_Slices_Mar17_11:48	13-14/10/2012			0		69390 69389 no images		no possible to RESTART issue mom status
24	9_Slices_Mar17_12:03	14/10/2012			0		69448 69448 no images		no possible to RESTART issue mom status
25	9_Slices_Mar17_12.18 h	10/9/2012			0		L68566 L68567 no images		no possible to RESTART issue i mom status

	A	В	С С	D	E	F	
1	MSSS mom folder	h= done by hand by MSSS commissioners	remarks	result img pipeline(create products	NO result img pipeline crashed	problems / errors	
	MARCH						
3	9_Slices_Mar09_13:28		tared	66212 ok		also BDSM catalogue	
				66211 ok			
4	9_Slices_Mar09_13:28		tared			image horrible	
5	9_Slices_Mar09_13:43	31/10/2012	restared	66244 ok		image horrible	
6	9_Slices_Mar09_13:43	31/10/2012	restared	66243 ok		also BDSM catalogue	
7	9_Slices_Mar18_09:18	19/10/2012	status no update	70183 ok		pixel issue in parset	
8							
9	9_Slices_Mar18_09:18	19/10/2012	status no update	70182 ok		pixel issue in parset	
10	9 Slices Mar18 09:33	mom folder issue				F	
11		mom folder issue					
	9_Slices_Mar18_13:33	mom folder issue					
12	9_Slices_Mar18_19.18 h						
13	9_Slices_Mar18_19.18 h						
14	9 Slices Mar18 19:33	19/10/2012	status mom ok	L70181 ok			
15	9_Slices_Mar18_19:33	19/10/2012	status mom ok	L70180 ok			
16	9_Slices_Mar18_19:48	19/10/2012	status mom ok	L70179 ok			
17	9_Slices_Mar18_19:48	19/10/2012	status mom ok	L70178 ok			
18	9 Slices Mar21 18:33	20/10/2012	status mom ok	L70177 ok			
19	9_Slices_Mar21_18:33	20/10/2012	status mom ok	L70176 ok			
20	9 Slices Mar21 18:48	20/10/2012	status mom ok	L70175 ok			
1	9 Slices Mar21_18:48	20/10/2012	status mom ok	L70174 ok			
2	9_Slices_Mar21_19:03	20/10/2012	status mom ok	L70241 ok			
23	9_Slices_Mar21_19:03	20/10/2012	status mom ok	L70240 ok			
24	9 Slices Mar30 16:23	21/10/2012	status mom ok	L70298 ok			
25	9_Slices_Mar30_16:23	21/10/2012	status mom ok	L70299 ok			
26			status mom not				
20	9_Slices_Mar30_16:38	21/10/2012	update	L70357 ok			
			status mom no				
27	9_Slices_Mar30_16:38	21/10/2012	update	L70356 ok			
	9_0110e5_IVId130_10:30	21/10/2012		L/0300 UK			
28			status mom no				
	9_Slices_Mar30_16:53	21/10/2012	update	L70415 ok			
			status mom no				
29	9 Slices Mar30 16:53	21/10/2012	update	L70415 ok			
20				L70873 ok		alaa DDCM aatalaaya	
30	9_Slices_Mar30_17:08	23/10/2012	new pybdsm patch			also BDSM catalogue	
31	9_Slices_Mar30_17:08	23/10/2012	new pybdsm patch	L70872 ok		also BDSM catalogue	
32	9 Slices Mar31_01:48	26/10/2012	no img pipel				
		25/10/2012					
33	9_Slices_Mar31_02:03		no img pipel				
34	9_Slices_Mar31_02:18	25/10/2012	no img pipel				
35	9_Slices_Mar31_08:33	25/10/2012	no img pipel				
36	9_Slices_Mar31_08:48	25-26/10/2012					
			no img pipel				
37	9_Slices_Mar31_09:03	26/10/2012	no img pipel				
38	9 Slices Mar31 09:18	26/10/2012	no img pipel				
	9_Slices_Mar31_20:43	26/10/2012					
		0011010010	no img pipel				
40	9_Slices_Mar31_20:58	26/10/2012					
	9_Slices_Mar31_21:13	1/11/2012				solved bug this week (DPPP selection of baselines): need to rerun starting at	
41	9_51ICes_Mar31_21:13	1/11/2012			72873 failed	calibrator pipeline (don't forget to remove statefiles and scratch data	
42	9_Slices_Mar31_21:13	1/11/2012			72872 failed	idem	
43	9_Slices_Mar31_21:28	1/11/2012			72933 failed	idem	
44	9_Slices_Mar31_21:28	1/11/2012			72932 failed	idem	
46							
16							
47							
	FEDDUARY						
8	FEBRUARY						
19	9_Slices_Feb03_20:33	1/11/2012			73023 failed	idem	
	9 Slices Feb03 20:33	1/11/2012			73022 failed	idem	
				70074 -1-	, JULE IGHEG		
	9_Slices_Feb04_03:03	7/11/2012		73971 ok		image horrible amp 2500 Jy	
2	9_Slices_Feb04_03:03	7/11/2012		73971 ok		image horrible amp 6000 Jy	
	9_Slices_Feb04_03:18	8/11/2012		74055 ok			
	9_Slices_Feb04_03:18	8/11/2012		74054 ok			
5							
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9	9 Slices Dec24 20:33	9/11/2012					
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### images

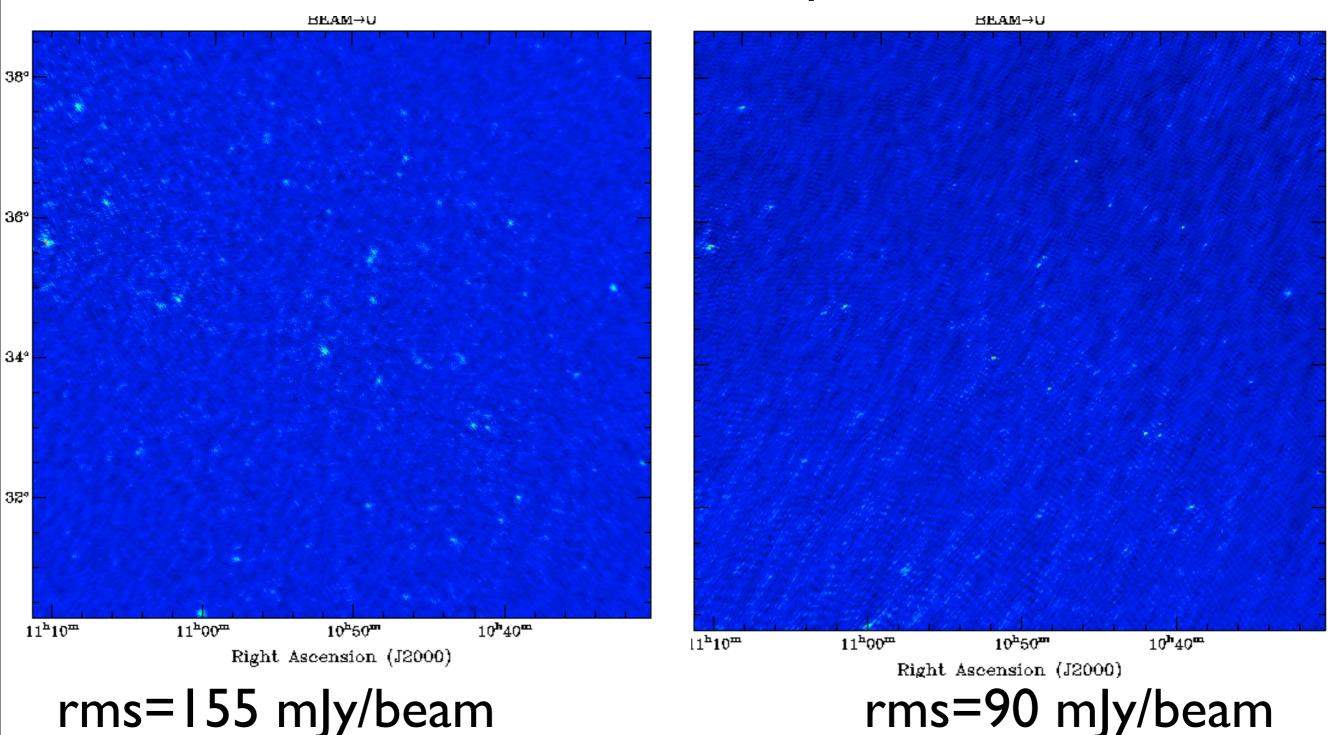


## Results and plans

- automatic pipeline run for a sub set of MSSS (March)
- a substantial number will be restarted
- we are learning a lot and tuning the pipeline software on the fly
- calibrator and target pipelines are quite stable, imaging pipeline needs "decision maker" for cleaning parameters and discarding bad timeslices and new parameters for source finder (George et al. during MSSS weeks)
- next steps: remove raw data of cal-tar for blocks processed successfully

# MSSS old vs new system

Field observed 30-03-2011 repeated 3-11-2012



Wednesday, 14 November 2012

