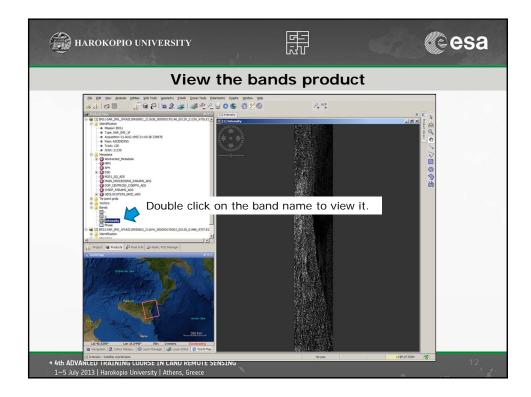
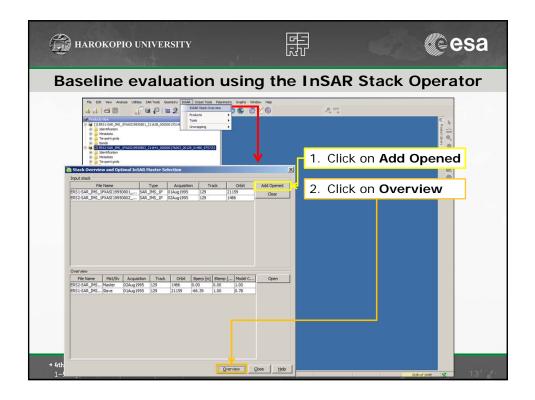
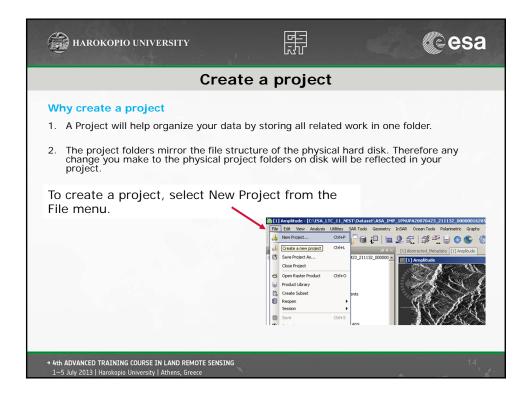
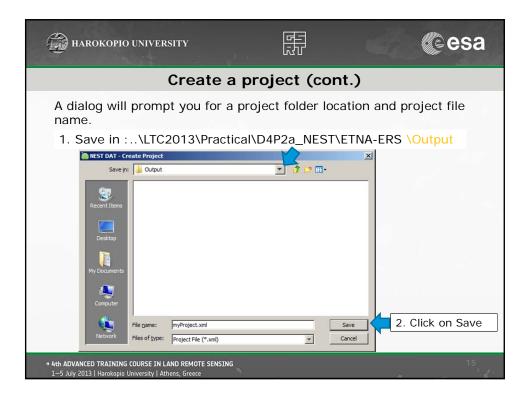


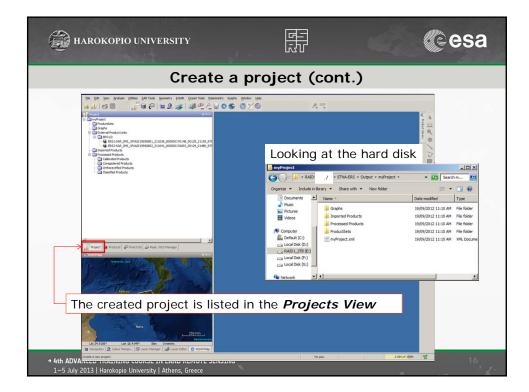
HAROKOPIO UNIVERS	ТҮ			esa
	Inspect t	he produc	t	
	the second	Comparison on the item of the original recording the second	product (Mission, the and Orbit) metadata within the is the important a common format and he processing that was om interpolating the tie- e interpolation is done uuct and <i>virtual band</i> s	
	created by NEST from distinguish these bar		ent icons are used to	11. * 2.

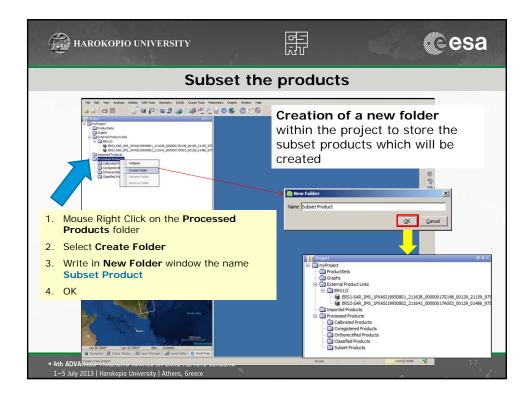


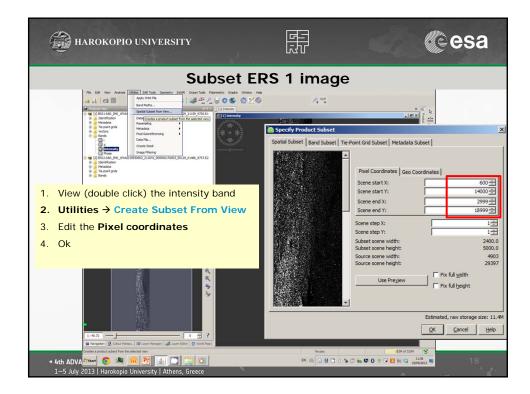


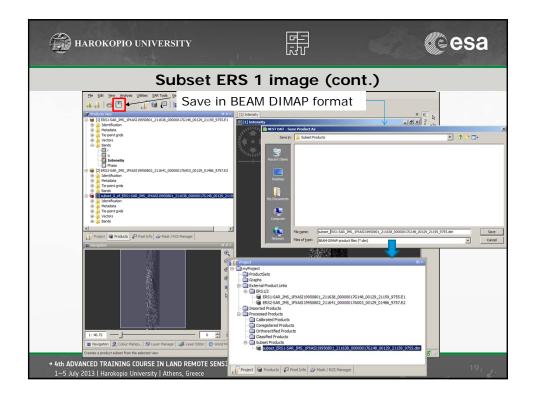


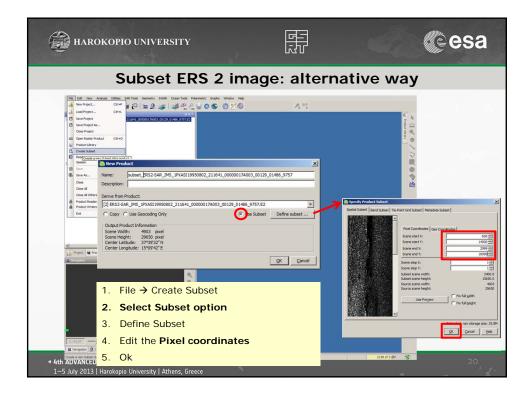


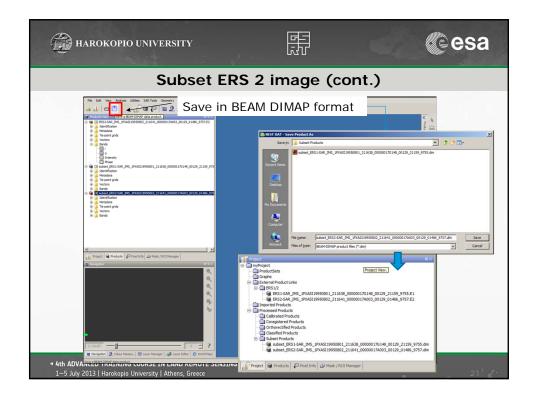


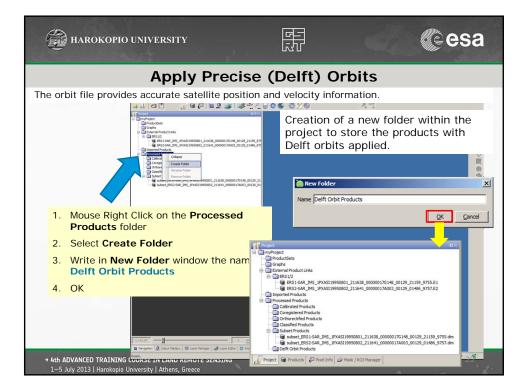




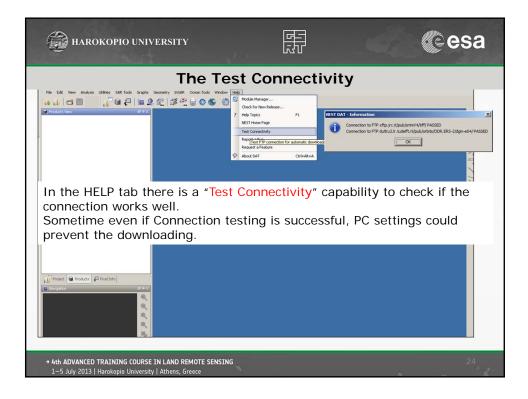


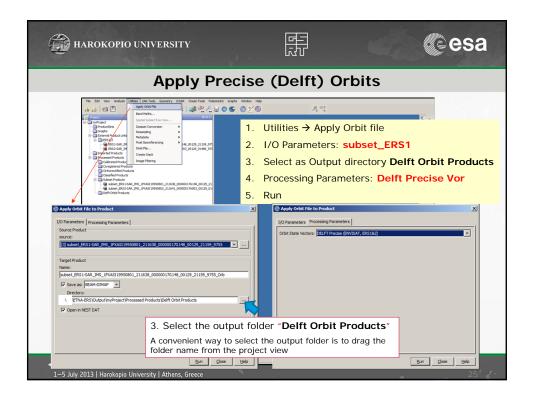




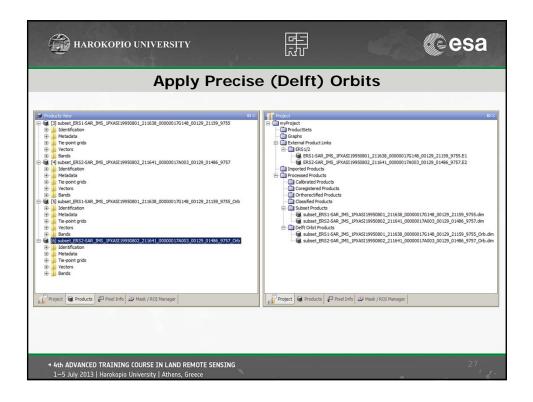


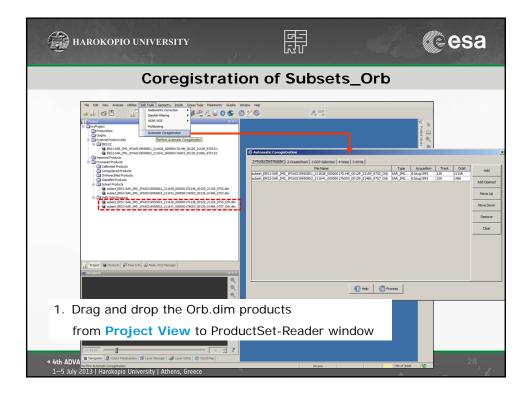
HAROKOPIO UNIVERSITY	開 の Cesa
The	Settings window
File Edit West Analysis Utilities SAR Tools Generation Image: Second Sec	 NEST is able to download automatically few auxiliary data like the STRM v.4 (3" tiles) (JRC FTP (xftp.jrc.it)), Delft and ESA orbits.
Colors Debra b) Create Compty Container Comparison	Auxiliary data downloaded into default folders according to the Settings Windows
Setting: Setting: Dependence (Setting) Dependence (Setting) Dependence (Setting) Dependence Dependence	• Internet is required! And The firewall must allow that.
Address A	 If your Internet settings are preventing the downloading, you still can download by yourself the DEM tiles and/orbits and put these manually in the NEST Settings Window directories.
Det Proces Cells Det Proces Det Proces Cells Det Proces Det Proces Cells Det Proces Det Proces Cells Det Proces Det Proces	Share with + New fidder Date modified Type Size
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE S 1-5 July 2013 Harokopio University Athens, Greece	SENSING 23





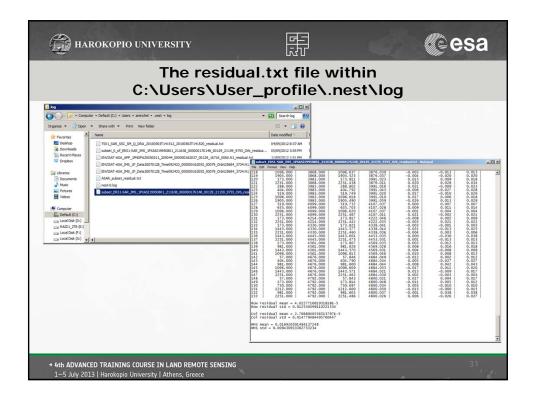
HAROKOPIO UNIVERSITY			- All	Cesa
Apply Pred	ise	(Delft) Or	bits	
Apply Unit File & Second Apply Second Second Products Apply Second Second Second Second Products Apply Second	 2. I/ 3. Si 4. Pr 	tilities → Apply C O Parameters: \$ elect as Output of roccessing Paramet un • Order Voter Feter Product • Order State Vectors: • Outpreference ()	ubset_ERS2 lirectory Delft eters: Delft P	t Orbit Products recise Vor
3. Select the output fol A convenient way to select folder name from the proje	the out			
Bun Gree Ath ADVANLED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece	Heb			Bun glose Help 26

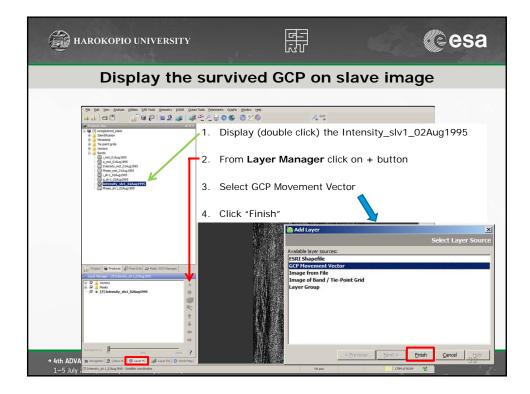


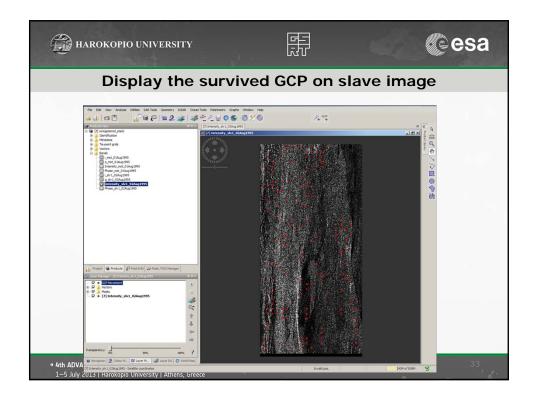


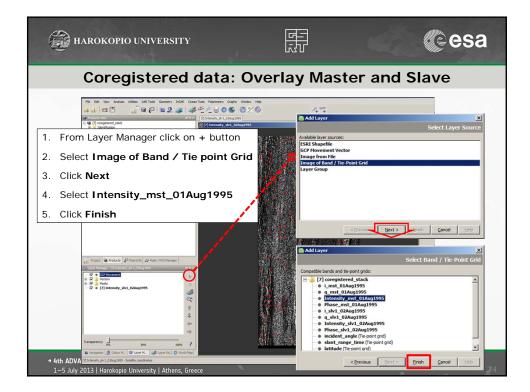
	HAROKOPIO UNIVERSITY			esa
	Coregistratio	n: parame	ters	
Automatic Gorego I-Poductic Reader Nater Rands: Stave Bands: Casenging Type: Dubut Dumba: Frid Optimal Maste	20100000000000000000000000000000000000	Automatic Coregistration Invoket of Coregistration Invoket of Core Constant Core	600 64 4 4 4 5.25 5 5.55 64 64	× × × × ×
	ANCED TRAINING COURSE IN LAND REMOTE SENSING y 2013 Harokopio University Athens, Greece			29

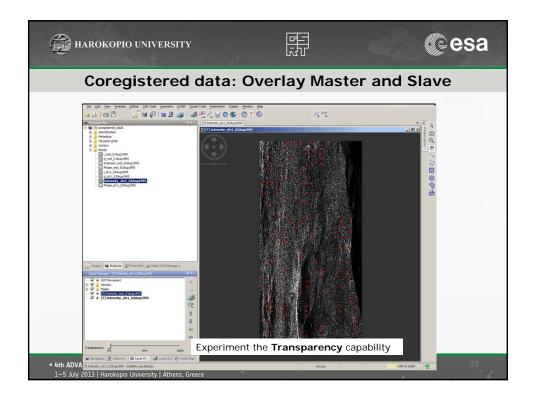
HAROKOPIO UNIVERSITY		esa
Coregistration	n: parameters	
Inductive Consistential 3.000 Meeting Interpretential 3.000 Meeting Varie Threshold (and conservity) 0.05 Interpretential Interpretential Varie Threshold (and conservity) 0.05 Interpretential Interpretential Varie Threshold (and conservity) 0.05 Interpretential Interpretential Varie Threshold (and conservity) Threshold and (and and and and and and and and and and	Select as target director "Coregistered Product A convenient way to select th drag the folder name from th . Click Process Click Process Mathematical Constitution of Societation of Societatio of Socie	s" ne folder is to
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece		

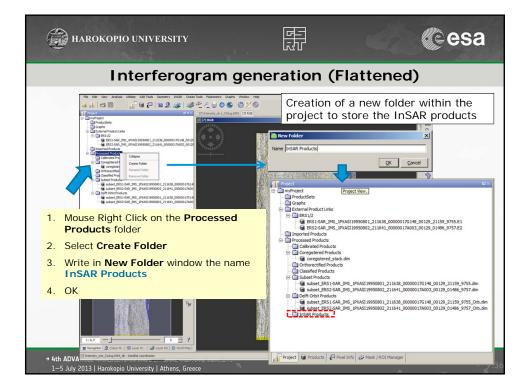






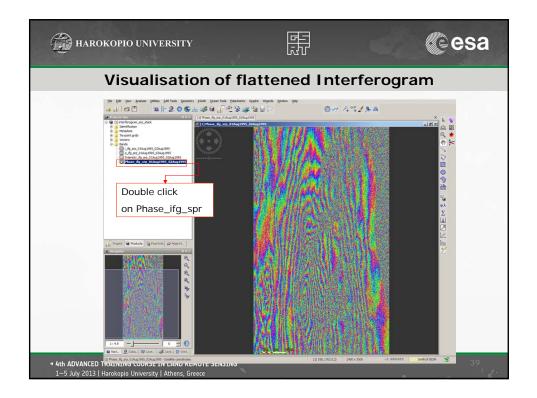


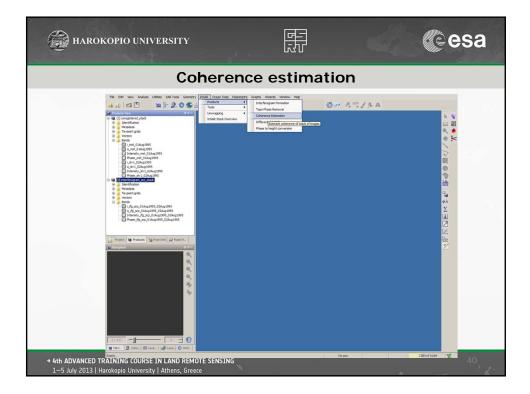




HAROKOPIO UNIVERSITY		esa
Interferogram gei	neration (I	Flattened)
Per Est fiver Analyse Users SAL how Generity (<u>SALE) Coart how Powerer</u> Gapts Window 14 (a) () () () () () () () () () () () () ()	Aton	× all of C
Computation of Complex Interferogram ITREST 2-Interferogram 3-Write Source Product Name: [7] compatement_stack [7] compatement	1.Read 25.Interferogram 3-W Degree of "Hat Earth" polynomial Number of "Hat earth" estimation Orbit interpolation degree: ☐ Do NOT subtract flat earth pl	tte s 5 ¥ 501 5 3 ¥ hase from interforegram.
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece		37

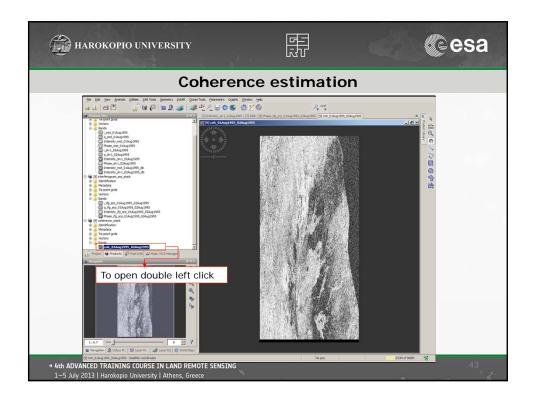
HAROKOPIO UNIVERSITY	臣 《 esa
Interferogram ge	neration (Flattened)
Completation of Complex Interferogram Read [2-biter ferogram] 3-bitite] Target Product Pares: Interferogram, pp_stack.dm Pares: Interferogram, pp_stack.dm Parestary Detectory: Dete	 Select as target directory: "Insar Products" Convenient way to select the folder is to drag to folder name from the project view. Click Process Click Process
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece	Project Products Products Products Products 38



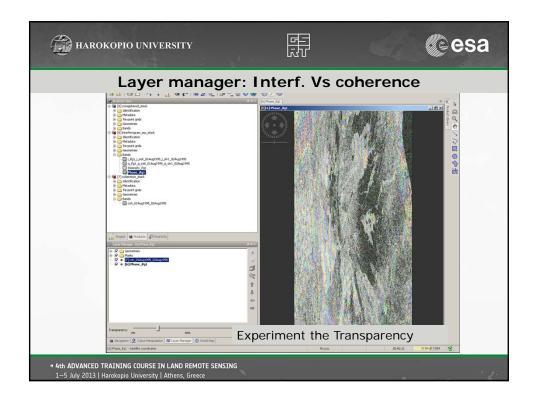


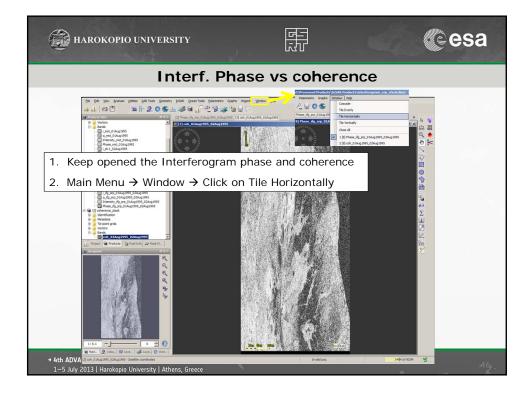
HAROKOPIO UNIVERSITY		44	esa
Coherence	e estimatio	on	
Coherence Estimation	Coherence Estimation I Read [ZCRNText] Coherence Window Size in Range: Coherence Window Size in Range:	and the second se	
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece			41

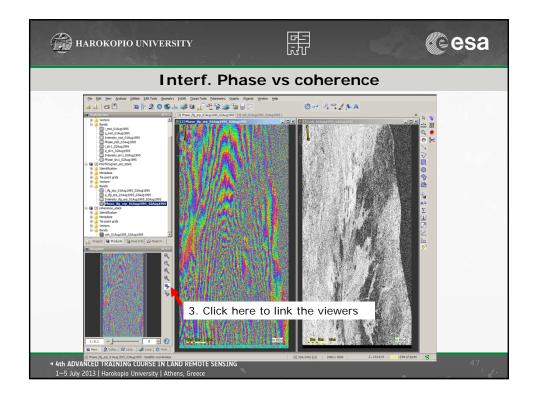
HAROKOPIO UNIVERSITY			esa
Coherence	estimatio	n	
Coherence Estimation	×		
I.Read 2.Coherence Target Product Name: Coherence_stad.dm Image: Directory: Directory: Open in NEST DAT	B33 B	AR, [H4, [H4A11955001_211538_00000117418], AR, [H6, [H4A11955001_211641_000001174003_ tds Markats 44 Podets tered_stack_dn 64 Podets Tedestack_dn 64 Podets 2613 AR, [H6, [H4A11955001_211641_000001 PRO1AR, [H6, [H4A11955001_211641_000001 PRO1AR, [H6, [H4A11955001_211641_000001 PRO1AR, [H6, [H4A11955001_211641_000001 PRO1AR, [H6, [H4A11955001_211641_000001 PRO1AR, [H6, [H4A11955001_211641_000001 PRO1AR, [H6, [H4A11955001_211641_000001] PRO1AR, [H6, [H4A11955001_211641_000001] PRO1AR, [H6, [H4A11955001_211641_000001] PRO1AR, [H6, [H4A11955001_211641_000001] PRO1AR, [H6, [H4A11955001_211641_00000] PRO1AR, [H6, [H4A11955001_211641_00000] PRO1AR, [H6, [H4A11955001_211641_00000] PRO1AR, [H6, [H4A11955001_211641_00000] PRO1AR, [H6, [H4A11955001_211641_00000] PRO1AR, [H6, [H4A11955001_211641_00000] PRO1AR, [H6, [H6, [H4A11955001_211641_00000] PRO1AR, [H6, [H6, [H6, [H6, [H6, [H6, [H6, [H6	00129_01496_9757.62 76149_00129_21159_9755.dm 74003_00129_01496_9757.dm 76148_00129_21159_9755_0rb.dm
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece			42



HAROKOPIO UNIVERSITY	副 記 () () () () () () () () () () () () ()
Constraints Constrain	Construction of the second sec
4th ADVANCED TX-ATIVATION CONCELLATION FOR THE	Select Band / Tie-Point Grid

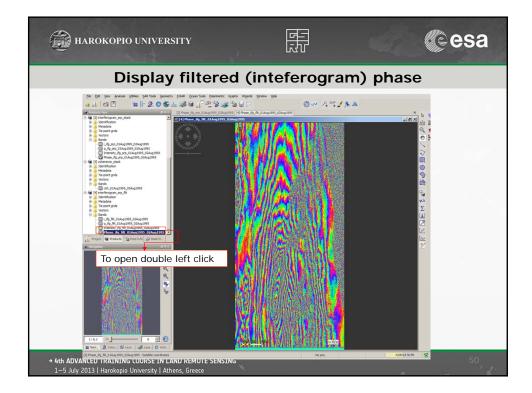


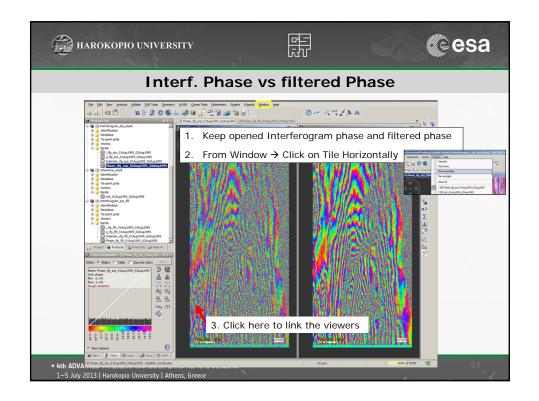


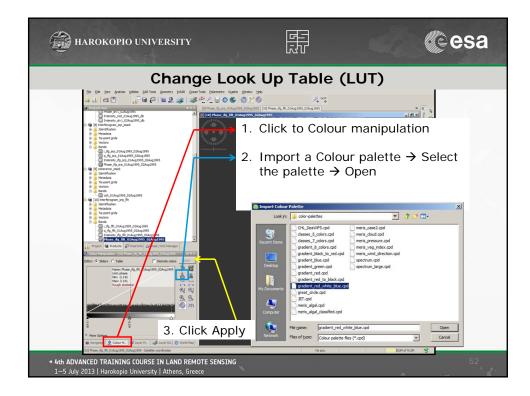


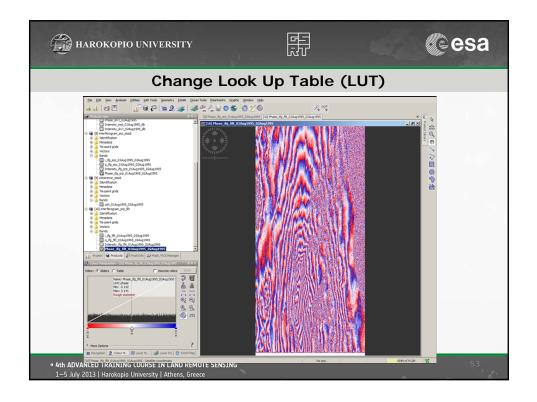
HAROKOPIO UNIVERSITY		esa
(interferogra	m) Phase fi	Itering
Perset Recreter Jakas de Interferogram. Source Product Terre [1] Inter ferogram.up.stad.	Compared and a second and	enforcegrams
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece		48

HAROKOPIO UNIVERSITY		() esa
(interferogram)	Phase fil	tering
Phase Filtering of stack of Interforegrams Fided [24hausFite[] = Write] Target Product Name: Interforogram_spp_BLd:m VisSAR Products VisSAR Products VisSAR Products Processing completed in 22 seconds P	Blacket Product B	Und_privati 19950001_211638_000000170148_00129_21139_2755.61 Und_privati 1995000_211641_00000170400_00129_01466_9757.62 44 44 45 45 45 45 45 45 45 45
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1—5 July 2013 Harokopio University Athens, Greece		49









HAROKOPIO UNIVERSITY		esa				
Multilooking (2;10) for filtered phase						
Image: State of the state o	A and a second s	× Market				
[JO Parameters] Source Product [10] Interferogram_srp_fit Target Product Name: Interferogram_srp_fit ML If Source as: Dave as: Detectory:	I/O Parameters Proce Source Bands: G GR Square Poxel Number of Range Look	Life_fit_01Aug1995_02Aug1995 g_ife_fit_01Aug1995_02Aug1995 Intensity_ife_fit_01Aug1995_02Aug1995 Phase_ife_ift_01Aug1995_02Aug1995 C^ Independent Looks s:				
E-IETNA-ERS (Dutput ImpProject) Processed Products UnSAR Products	Number of Azimuth Loo Mean GR Square Pixel:					
 Only i and q bands have to be select The (-π, + π] phase range is then pre 						
The phase has to be reconstructed u Band Maths Operator.		Bun Close Heb				
Avenue 2 Convrt. Start 1 were the or working 1 Atth ADVA Nutries many 1 July 2013 Harokopio University Athens, Greece	Ne pos.	्रीम्भज ssa 😴 54				

HAROKOPIO UNIVERSITY	雷 訳 @esa					
Reconstruct the phase after Multilooking by using the Band Maths Op						
File Ext Verifying Staff Trades Generativy Include Image: Staff Trades Array Outbin Trade Include Include Include Image: Staff Trades Bandit Include Include Include	1					
Target product: [11] interferogram_srp_fit_ML Name: phase Description:	 Utility → Band Maths Op Select Target product Name: write in phase Uncheck Virtual option Click to Edit Expression 					
→ 4th ADVANCED TRAINING COURSE IN LAND REMOTE SENSING 1-5 July 2013 Harokopio University Athens, Greece	55					

HAROKOPIO UNIVERSITY	i de la	4	esa
Band Haths Expression Editor Data source: 1_ifg_flit_0lAug1995_02Aug1995_VY 0 + 0 ifg_flit_0lAug1995_02Aug1995_VY 0 - 0 <th>Dyresion: phase(i_ifg_file_OlAug199 q_ifg_file_OlAug1995_023 main <tdmain< td=""> <tdmain< td=""></tdmain<></tdmain<></th> <th>1. Write t 2. Click O</th> <th>he expression K</th>	Dyresion: phase(i_ifg_file_OlAug199 q_ifg_file_OlAug1995_023 main main <tdmain< td=""> <tdmain< td=""></tdmain<></tdmain<>	1. Write t 2. Click O	he expression K
		 Band Habbs Target product: Ital net Feropose, srp. fit. M. Mane: Phase Description: Phase Description: Virtual (save expression only, don't What: Wrtual (save expression only, don't Phase Phase Infrary results by Band maths expression: phase(_if_e_it_0.1Aug 1995_0.02Aug 199	
→ 4th ADVANCED TRAINING COURSE IN LAND REM 1-5 July 2013 Harokopio University Athens, Gree		3. Click OK	QK Cancel 5 Help

