Procedure for Updating CLIMSOFT Database from GTS Data Downloaded from NOAA FTP Site and Production of Dekadal Bulletin

Step 1: Log into Climsoft

۶ Login							
Gestion des données Climsoft							
Nom d'utilisateur	admin						
Password	****						
	Oui Annuler						

Password: admin

Step 2: Click on the Unzip NOAA button

🗲 Clim	soft						
Fichier	Saisir	Accessories	Contrôle de qualité	Produits	Administration	Outils	i Aide
9	⁷ Bienver	nue			×		
	Welcon enter da and mo	ne to CLIMSOFT ata, generate a r re !	Data Management Syst number of products, carry	em. This sys) out quality c	tem allows you to control of your data		
	Perf	form key entry us	ing pre-defined forms	(k	ey Entry		
	Syn	optic feature dat	a entry	Sync	ptic Feature		
	Arch	nive paper image	s	Pap	per Archive		
	Perf	orm data transfe	r operations	Utilité:	s du base de Jonnées		
	Perf	orm quality contr	ol checks	Contro	ôle de qualité		
	Retr spec	rieve tabulated d cial products	ata, graphs and		Produits		
	Add	, remove or mod	ify users	U	ser Admin		
	Add	or modify metad	ata information	N	fetadata		
	Unz	ip Downloaded I	NOAA GTS data	Ur	nzip NOAA		
					Annuler		
						_	

Step 3: Click on button Exceute button to unzip the files

🥖 Unzip NOAA GTS	Data	—
This operatic compressed	on calls a batch script that in turn executes a script to Unzip files downloaded from NOAA - NCDC	
Batch File:	J:\Batch\extract_noaa.bat	Browse
	Execute Close Help	

Step 4. Close the form to get back to the Welcome Screen

Step 5.

On the Welcome Screen, click ob DB Utilities

🕖 Clims	oft		-		l		• X
Fichier Aide	Saisir	Accessories	Contrôle de qualité	Produits	Administra	ation	Outils
						_	5
	Bienve	nue				×	
	Welcor enter d and mo	me to CLIMSOFT ata, generate a r pre !	Data Management Sys number of products, carry	tem. This sys γ out quality	stem allows you control of your	u to data	
	Peri	form key entry us	ing pre-defined forms		Key Entry		
	Syn	ioptic feature dat	a entry	Syn	optic Feature		
	Arc	hive paper image	s	Pa	aper Archive	1	
	Per	form data transfe	r operations	Utilité	ès du base de données	>	
	Perl	form quality contr	ol checks	Cont	rôle de qualité		
	Ret spe	rieve tabulated d cial products	ata, graphs and		Produits		
	Ado	l, remove or mod	ify users	L	Jser Admin		
	Ado	l or modify metad	ata information		Metadata		
	Unz	ip Downloaded I	NOAA GTS data	U	nzip NOAA]	
					Annuler		

Step 6. Click on button Update intermediate database

)pérations du Entrer d	lonnes au base de donnéesSingle key-entry mode						
Select a key-entry for	m below, and then press [Enter] or double click on selected form to start key-entry						
Data forms							
Données pour un Données pour un Données synoptiq Caribbean synopti Monthly data Synoptic data for	élément pour 24 heures élément pour le mois entier jues pour plusieurs éléments pour une heure d'observation ic data for many elements for one observation time many elements for one observation time - TDCF						
•	4 III						
Base de données	J:\Program Files (x86)\Climsoft\dbase\ACMAD\Temp_work_file_v3_acmad.mdb						
Base de données	ase de données J:\Program Files (x86)\Climsoft\dbase\ACMAD\intermediate_climsoft_database_v3_acmad_2013						
Main database file:	file: J:\Program Files (x86)\Climsoft\dbase\ACMAD\mysql_main_climsoft_database_v3_acmad.mdb						

Step 7. Select option NOAA GTS daily and Click OK

🔗 Mettre à jour la base de données intermediate 🛛 🗾 💌							
Update Options							
C Selected forms	🔘 Monthly Data (csv)						
Clicom Daily (csv)	C Climsoft v2 Access main db						
Clicom_2 daily(csv)	C Climsoft v2 MySQL main db						
Clicom Synop (csv)	O Automatic Wx Station						
 Clicom Hourly (csv) 	metos AWS						
C Hourly / Daily (csv)	GTS Synop from Messir COMM						
C Daily INSTAT Format (csv)	 NDAA GTS daily 						
 Daily - month columns (csv) 	C Convert wind direction to numeric						
Data has decimal point applied	Oui Annuler Aide						

Step 8: Enter parameters for required dekad namely begin year, end year, begin month, end month, being day, end day. Click OK.

📝 Import NOAA GTS Data		_ _ x					
Element Selection Tmean Tmax Tmin Precip	Begin year: End year: Begin month: End month: Begin day: End day:	2013 2013 9 9 9 1 1 10					

Step 9. Run Quality Control

🗲 Clim	soft								x
Fichier Aide	Saisir	Accessories	Contrôle de qualité	Pr	oduits	Administrat	tion	Outils	
								_	Â
	Bienve	nue					×		
	Welcor enter d and mo	me to CLIMSOFT ata, generate a r rre !	Data Management Syst number of products, carry	em. Vout	This sysl quality c	em allows you ontrol of your (to data		
	Perf	form key entry us	ing pre-defined forms		k	ey Entry	1		
	Syn	optic feature dat	a entry		Sync	ptic Feature			E
	Arch	hive paper image	s		Pap	er Archive	1		
	Perf	form data transfe	r operations		U tilité: c	s du base de Ionnées			
	Perf	form quality contr	ol checks		Contro	òle de qualité	\mathbf{b}		
	Reti spe	rieve tabulated d cial products	ata, graphs and			Produits			
	Add	l, remove or mod	ify users		U	ser Admin			
	Add	l or modify metad	ata information		N	letadata			
	Unz	ip Downloaded I	NOAA GTS data		Ur	zip NOAA			
						Annuler			
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Step 10. Click OK to run QC for absolute limits checks

🔗 Contrôle de qualité	—
Type of QC report Absolute limits check Limits check (based on standard deviation) Rapport de contrôle de qualité entre les éléments Diurnal range check Consecutive days consistency check Consecutive hours consistency check Spatial consistency check	View Selected Wx Elements View Paper Archive View Neighouring values
Base de données J:\Program Files (x86)\Climsoft\dbase\ACMAD\ir Mettre à View Oui An	ntermediate_climsoft_data

Step 11. Specify parameters begin year, end year, begin month and end month for QC for the month containing the dekad you require.

🦻 QC Absolute limits che	eck 📃 💌
Begin Year	2013
End Year	2013
Begin Month	9
End Month	a
Cui	Annuler Aide

	A	В	С	D	E	F	G	Н		J	K	
1	station	element_code	obs_datetime	уууу	mm	dd	hh	obs_value	limit	val_limit_diff	limit_type	qc
2	60155	5	09/06/2013 06:00	2013	9	6	6	1000.76	1000	-0.76	Upper_limit	
3	60555	2	09/08/2013 06:00	2013	9	8	6	460	440	-20	Upper_limit	
4	60580	2	09/08/2013 06:00	2013	9	8	6	450	440	-10	Upper_limit	
5	60580	2	09/09/2013 06:00	2013	9	9	6	441	440	-1	Upper_limit	
6	60581	2	09/08/2013 06:00	2013	9	8	6	450	440	-10	Upper_limit	
7	60602	3	09/06/2013 06:00	2013	9	6	6	351	320	-31	Upper_limit	
8	60603	2	09/08/2013 06:00	2013	9	8	6	442	440	-2	Upper_limit	
9	60603	3	15/09/2013 06:00:00	2013	9	15	6	352	320	-32	Upper_limit	
10	60630	2	09/07/2013 06:00	2013	9	7	6	445	440	-5	Upper_limit	
11	60630	2	09/08/2013 06:00	2013	9	8	6	467	440	-27	Upper_limit	
12	60630	2	09/09/2013 06:00	2013	9	9	6	466	440	-26	Upper_limit	
13	60630	2	09/10/2013 06:00	2013	9	10	6	454	440	-14	Upper_limit	
14	60630	2	09/11/2013 06:00	2013	9	11	6	455	440	-15	Upper_limit	
15	60630	2	09/12/2013 06:00	2013	9	12	6	451	440	-11	Upper_limit	
16	60630	2	13/09/2013 06:00:00	2013	9	13	6	447	440	-7	Upper_limit	
17	60630	2	14/09/2013 06:00:00	2013	9	14	6	443	440	-3	Upper_limit	
18	60630	2	15/09/2013 06:00:00	2013	9	15	6	444	440	-4	Upper_limit	-
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Prêt										100 % 😑		÷

Step 12. Check if there are any values that are doubtful. An explanation of QC reports is given in the Climsoft Help or Adminstrator's Guide.

Step 13: Go back to DB Utilities

🕖 Clims	oft								x
Fichier	Saisir	Accessories	Contrôle de qualité	Prod	uits	Administr	ation	Outils	
Alde	_			_	-	_	_	_	_
9	Bienver	nue					×	ו	
	Welcor enter da and mo	ne to CLIMSOFT ata, generate a r re !	Data Management Sy number of products, car	stem. Thi: ry out qua	s syst ality c	em allows yo ontrol of your	u to r data		
	Perf	form key entry us	ing pre-defined forms		К	ey Entry			
	Syn	optic feature dat	a entry		Syno	ptic Feature			
	Arch	nive paper image	s		Pap	er Archive			
	Perf	orm data transfe	r operations	C	Jtilitės d	: du base de onnées	>		
	Perf	orm quality contr	ol checks	C	Contrá	ile de qualité			
	Reti spe	rieve tabulated d cial products	ata, graphs and		F	Produits			
	Add	l, remove or mod	ify users		Us	er Admin			
	Add	l or modify metad	ata information		M	letadata			
	Unz	ip Downloaded M	NOAA GTS data		Un	zip NOAA			
					,	Annuler			

Step 14: Click button for updating main database

Data forms	
Données pour un Données synoptic Caribbean synopt Monthly data Synoptic data for	élément pour zerneures élément pour le mois entier jues pour plusieurs éléments pour une heure d'observation ic data for many elements for one observation time many elements for one observation time - TDCF
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Base de données	III J:\Program Files (x86)\Climsoft\dbase\ACMAD\T emp_work_file_v3_acmad.mdb
Base de données Base de données	III III J:\Program Files (x86)\Climsoft\dbase\ACMAD\Temp_work_file_v3_acmad.mdb J:\Program Files (x86)\Climsoft\dbase\ACMAD\intermediate_climsoft_database_v3_acmad_2013

Step 15: Check the boxes for all stations and all, elements, specify begin year, end year, begin month, end month, and click OK.

🥖 Uploading to	Main DB					×
Update Option Upload fro Import from Import from	ns m intermediate dat n main database ba n main MS Access	abase C ackup database	Upload from ODBC in	termediati	e database to ODBC main database	
Select All St	Select All Stations					
62398 64756 65450 65578 64960 62640 62795 62018 62125 62458 65472	ABUDH 62398 ABECHE ABETIFI ABIDJAN ABU HAMED ABU NA'AMA ABU NA'AMA ABU NJA'YM ABU SIMBEL ABUJA ABURDEES ACCRA		^	600 5 2 4 3	Precip ARC2; daily (062-062) Precip; daily Temp; daily max Temp; daily mean Temp; daily mean Temp; daily min	
		Begin year: End year:	2013		Begin month: 9 End month: 9	
					Close Help	

🕖 Clim	soft			-			• ×	
Fichier	Saisir	Accessories	Contrôle de qualité	Produits	Administration	Outils	Aide	
9	Bienver	nue			×			
	Welcor enter d and mo	ne to CLIMSOFT ata, generate a r re !	Data Management Syst number of products, carry	em. This syst out quality c	em allows you to ontrol of your data			
	Perf	form key entry us	ing pre-defined forms	ĸ	ey Entry			
	Syn	optic featuie dat	a entry	Syno	ptic Feature			
	Archive paper mages			Pap	per Archive			
	Perf	form data transfe	r operations	("tituintes	sidumbasender) Ionnées			
	Perf	form quality contr	ol checks	Contró	òle de qualité			
	Reti spec	rieve tabulated d cial products	ata, graphs and	\subset	Produits			
	Add	l, remove or mod	ify users	U	ser Admin			
	Add	l or modify metad	ata information	N	1etadata			
	Unz	tip Downloaded I	NOAA GTS data	Un	zip NOAA			
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Step 16: Go back to Welcome Screen and click on Products button



🕖 Extraire les données tabulées, les graphiques et les produ	its spécialisés 🛛 💽					
Get details about data records of elements at a selected station	Inventaire					
Extract climate data in tabular form	Données					
Generate graphs from selected data	Graphiques					
Monthly CLIMAT coded message	CLIMAT					
Summaries	Summaries					
Synoptic feature dekadal statistics	Synop Feature					
Generate backup file of main database	Backup					
Fichier de base dJ:\Program Files (x86)\Climsoft\dbase\ACMAD\mysql_main_						
Annuler	Aide					

Step 18: Dekadal bulletin is the only summaries products available and id selected by default. Click OK.



Step 19: Specify the parameters for the dekad you require i.e. year, month and dekad

🔗 ACMAD Dekadal Bullet	in 🔀
Year	2013 💌
Month	9 🗸
Dekad	1 💌
Rainy day threshold	0.1
Close	Help

Step 20: View the bulletin data automatically displayed in Excel. You can rename the file to give an appropriate name for the dekad e.g. **acmad_dekadal_bulletin_201209_dek1.xls**

	A	В	С	D	E	F	
1	station_nam	precip	rainy_days	tmin	tmax		
2	Alger (Dar El	29.5	4	19.2	29.1		
3	Tunis	17.8	2	22.1	31.0		
4	Tripoli	5.4	2	23.8	36.2		
5	Le Caire	0	0	22.9	33.0		_
6	Casablanca	100.1	1	20.9	26.4		
7	Tamanrasset	13.5	3	21.3	34.1		
8	Nouakchott	44.9	5	24.6	32.6		
9	Dakar-Yoff	139.6	7	24.4	30.4		
10	Tombouctou		0				
11	Banjul	123.1	7	22.3	30.8		
12	Bamako	43.8	7	21.7	31.5		
13	Ouagadougo	48.9	4	22.5	32.1		
14	Bobo Dioula:	29.8	7	21.6	30.1		
15	Bilma	0.5	1	23.2	41.3		
16	Agadez	2.5	2	25.9	38.5		
17	Niamey	7.1	3	24.3	33.2		
18	Zinder	35.6	4	22.9	34.1		
19	N'Djamena	50.8	4	21.8	32.7		
20	Abidjan	23.1	3	23.4	27.7		
21	Accra	7.4	2	23.7	28.6		
22	Lome	0	0	24.3	28.8		
23	Cotonou	4.8	4	24.3	29.3		
24	Abuja	21.5	4	21.6	29.1		÷
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