

# ACNA

## role within the ALADIN consortium

(input for Strategy workshop in Tls, April 2016)

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# ACNA position

ACNA = Aladin Coordinator for Networking Aspects (Activities, Applications)

ToR - to assist the ALADIN PM in the following tasks:

- Preparation of the LTM meeting and the coordination of actions to be taken by the LTMs.
- Supervise changes in the preparation of coupling files, due to specific changes in the Arpège suite.
- Coordinate the tests of the new cycles: supervise the meteorological performance, help on the installation of the new cycle in partner countries, distribute the needed technical tasks among the ALADIN partners, take part in the relevant System coordination
- CSSI member

Maria Derkova (SHMU, Slovakia) since March 07, 2013

unpaid position, missions to LTM meetings (+) covered

Work organization:

- webex meetings with PM & TASS (joined by HIRLAM System PL if relevant)
- e-mails exchange
- Table summary (google sheet on web)

# Coordination and networking with LTMs

Preparation of the LTM meetings (Agenda, documents) twice/year: Aladin WKS  
HIRLAM ASM + EWGLAM/SRNWP

Information exchange via e-mails

- Questionnaires, inquires (TAC2BUFR migration, ISP facility, local activities on geospatial data)
- Announcements (LBC switches, WWs)
- Knowledge & information spread; feedbacks (e923 updates)

Table summary (google sheet on web - shown later on)

Supervision and coordination of changes in the preparation of telecom coupling/climate files, due to specific changes in the Arpège suite

- migration to BULL (new climate & LBC files, e-suite evaluation)
- increase of Arpege resolution => upgraded telecom LBCs requested

Example of LBC WW in Toulouse, March 2015

# Supervision and coordination of telecom LBC Δs

Increase of ARPEGE resolution T1198C2.2L105 (April 2015) + various requests by Partners to update their telecom domain

- all ALADIN Partners informed @ LTM meetings and via e-mails (road-map, detailed instructions)...note that not all Partners do couple with ARPEGE
- requirements for changes in domain size/resolution/forecast ranges/NTs collected by ACNA
- translated into namelist parameters changes
- WW in Tls organized (March 2015) to prepare and test new telecom climate and LBC files
- checked with GCO (namelists, files)
- checked with IT (data volumes, telecom bandwidth)
- coordinated & simultaneous switch supervised on 30/06/2015
- wrap-up

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na metlist params	new clim				new e927		old domain
	p0g		e923				
LACE			NDOLG	360	NLAT	360	256
	NJMAX	349	NDGUXG	349	NFGUX	349	245
			NDLON	384	NLON	384	288
	NIMAX	373	NDLUXG	373	NFLUX	373	277
			NGSMAX	127	NMFPMAX	127	95
			NSMAX	119	NFPMAX	119	85
	XLONG	17.00	ELONG	17.00	FPLONG	17.00	17.00
	XLATO	46.2447	ELATO	46.2447	FPLATO	46.2447	46.2447
	XLONCEN	17.00	ELONC	17.00	RLONC	17.00	17.00
	XLATCEN	46.2447	ELATC	46.2447	RLATC	46.2447	46.2447
	XDY	8000.0	EDELX	8000.0	RDELX	8000.0	10610.00
	XDY	8000.0	EDELY	8000.0	RDELY	8000.0	10610.00
	XRPK	0.7222999923 17207.					0.7222999923 17207.
			NFLEV/G	1	NFLEV	105	70
Algeria			NDOLG	450	NLAT	450	300
	NJMAX	439	NDGUXG	439	NFGUX	439	289
			NDLON	450	NLON	450	300
	NIMAX	439	NDLUXG	439	NFLUX	439	289
			NGSMAX	149	NMFPMAX	149	100
			NSMAX	149	NFPMAX	149	100
	XLONG	3.25	ELONG	3.25	FPLONG	3.25	3.25
	XLATO	32.50	ELATO	32.50	FPLATO	32.50	32.50
	XLONCEN	3.25	ELONC	3.25	RLONC	3.25	3.25
	XLATCEN	32.50	ELATC	32.50	RLATC	32.50	32.50
	XDY	8000.00	EDELX	8000.00	RDELX	8000.00	12000.00
	XDY	8000.00	EDELY	8000.00	RDELY	8000.00	12000.00
	XRPK	0.5372996083.					0.5372996083
			NFLEV/G	1	NFLEV	70	70
Belgium			NDOLG	486	NLAT	486	360
	NJMAX	475	NDGUXG	475	NFGUX	475	349
			NDLON	324	NLON	324	300
	NIMAX	313	NDLUXG	313	NFLUX	313	289
			NGSMAX	107	NMFPMAX	107	99

# Installation of new cycles in ALADIN countries

Long-term practice in ALADIN: only export version of the T cycles are installed coordinately (i.e. with support)

Example of CY38T1.bf03 (2014) & CY40T1.bf05 (2015-6)

ACNA

- follows the progress in installation by Partners
- reports @LTM meetings
- transfers the information (e-mails, e-mail lists, LACE forum) = **weak point!**

Special actions for CY40T1.bf05 (cooperation with HIRLAM)

- the known bugs were collected aiming for bf06
- hangout with HIRLAM organized (thx Roger) to check assim configs
- baby steps for assim. configs: BATOR (& CANARI) in mitraille proposed

# Status of CY38T1.bf03\_export installation, Sep2014

list of countries	answ	CY38T1_bf03 installation	install known	configurations	oper	problems/comments
Algeria	n		yes			
Austria	y	yes		AROME	end of the year (e-suite in Oct)	
				ALARO	in the e-suite	not 100% convincing results, waiting for ALARO-1
Belgium	y	yes		4km, 7km	operational since 14/07/2014	
Bulgaria	y	yes			planned for 16/10/2014	in e-suite since mid June
Croatia	y	yes		8km, 4km	planned for this year on new domain/resolution	8km scores better in warm part of year, worse in winter (better in highres); 4km NH run with technical problems (hangout)
Czech R.	y	yes			oper 18/2/2014 (model), 11/9/2014 (canari)	diagpack not running (upper air canari)
				ALARO-1	in e-suite since 17/09/2014	
France	y	yes		AROME	another version of CY38 is operational	AROME-FR in 2weeks R&D assim+prod; mitraillette (also ALADIN?)
				AROME	operational since 3/7/2014	
Hungary	y	yes		ALARO	planned for Oct/Nov (with sms)	validated (neutral)
Morocco	n		yes			
Poland	y	yes			operational since 16/04/2014	
Portugal	y	yes		ALADIN/PORTUGAL, AROME/mainland	validation end of 2014; oper first half of 2015	installed on local IBM (technical software pb), and @MF; - info on RTTM_const and ecoclimap files not trivial to get; ALADIN without SURFEX - what is recommendation?
Romania	y	yes			by the end of the year	longer integration time wrt cy36t1, optimisation needed
Slovakia	y	yes		ALARO in new 4.5km res.	in the e-suite since 1/07/2014	probably waiting for HPC upgrade?
Slovenia	y	yes		ALARO+RUC+ECMWF lbc	operational since 19/06/2014	
Tunisia	y	yes			waiting for new HPC (IBM)	installed on quad corre TERRA machine
Turkey	y			4.5km, 60L, no assim	operational since 01/01/2014	

CY38T1bf03\_export installation by Partners: status as on 23 September, 2014

comments:

2 countries did not answer (although their status is more-or-less known)

Turkey answered on 23/09 - one day later => statistics are redone

7 countries operational (out of them 1 did not answer)

9 countries either in the e-suite or with already installed/validated runs (out of them 1 did not answer)

4 technical remarks/still pb?

ALARO-1 in the e-suite @ CHMI :)



# Status of CY40T1.bf05\_export installation, Apr2016

<a href="http://www.cnrm.fr">http://www.cnrm.fr</a>					
	update_Apr2016			Oct2015	
countries	answ	status+plans	answ	status	plans
Algeria		ported with help of MF, not operational yet	yes	not ported	planned for 2016
Austria	yes	AROME in e-suite, oper May but 3dvar on CY38t1; 927/FPOS, 001, BATOR, CANARI/OIMAIN, SCREENING, MINIMIZATION, PREP-OFFLINE, other tools like BLENDSUR/BLEND/ADDSURF/FESTAT/FEDIACOV/PROGRID/IOASSIGN/ODBTTOOLS/PGD	yes	finished	parallel suite under preparation for AROME, if successful next operational cycle at ZAMG
Belgium	yes	ported, tested ALARO1 1.3km; locally fixed bugs (chkevo), points out of domain (RCO_EZO=80)	yes	ongoing	new HPC in test phase; plans to make it operational with new domain/resolution
Bulgaria			yes	ported	e-suite Oct 2015, oper June2016
Croatia	yes	not ported yet but planned	yes	not ported (but CY41)	not this year
Czech R.	yes	not ported (HPC upgrade expected)	yes	not ported	not this year (ITT priority)
France	-		-	operational	
Hungary	yes	porting started just recently, plans for oper mid-summer	yes	not ported	Installation is planned for the end of 2015, testing in Q1-2016, operational implementation by mid-2016.
Morocco	yes	ee927+cpISURF+e001 AROME&ALARO; pb with screening when assimilating more obs; oper plan for 41t1 (!) during 2016	yes	ported	planed for december 2015
Poland	yes	no news to report	yes	operational	
Portugal			yes	not ported	??
Romania	yes	e001+ee927 (pb suefpg; RCO_EZO=90); oper 01/04/2016	yes	ported	oper end2015/beg2016
Slovakia	yes	e001,ee927,e701 ALARO+AROME; pb CANARI (GP diagnostics vs coupling); ALARO-1 in e-suite on new HPC soon	yes	installed	oper on new HPC (end of 2015?)
Slovenia	yes	not ported	yes	not ported	plans to compile and test in 2015
Tunisia	yes	compiled, validation ongoing. expecting bf06			
Turkey	yes	e001+ee927 ALARO-1 (runtime pb solved with intel compiler v11); ALARO oper in June2016, AROME on new HPC	yes	installed	planned for oper
HIRLAM				ongoing	Targeted as next reference version harmonie-40h1.1 with operational commitment from MetCoOp and AEMET. Several new developments introduced, see <a href="https://hirlam.org/trac/wiki/Harmonie_40h1#Differencebetween">https://hirlam.org/trac/wiki/Harmonie_40h1#Differencebetween</a>
	5	code problems with porting/validation encountered			
	3(+2?)	porting has not started			



# Two common HARMONIE system working weeks

Bratislava, Oct 2014

*3 HIRLAM, 9+6 ALADIN participants*

Installation of CY38T1.bf03 under HARMONIE system...OK

ALADIN components in HARMONIE system...pending

Training in using of HARMONIE system

Verification, 3DVAR



Bratislava, Nov 2015

*9 HIRLAM, 8 ALADIN participants*

ALADIN T code version reproducibility in H code version...OK

ALADIN components in HARMONIE system...pending

E923 (climate files preparations) differ

SURFEX - common topic

