

# SAPP Developments

## DAsKIT Working Days

Eoin Whelan

Met Éireann, Irish Meteorological Service/HIRLAM-C

# Outline

- Background
- Irish testing
- Status & future development
- Demo / screenshots

# Background

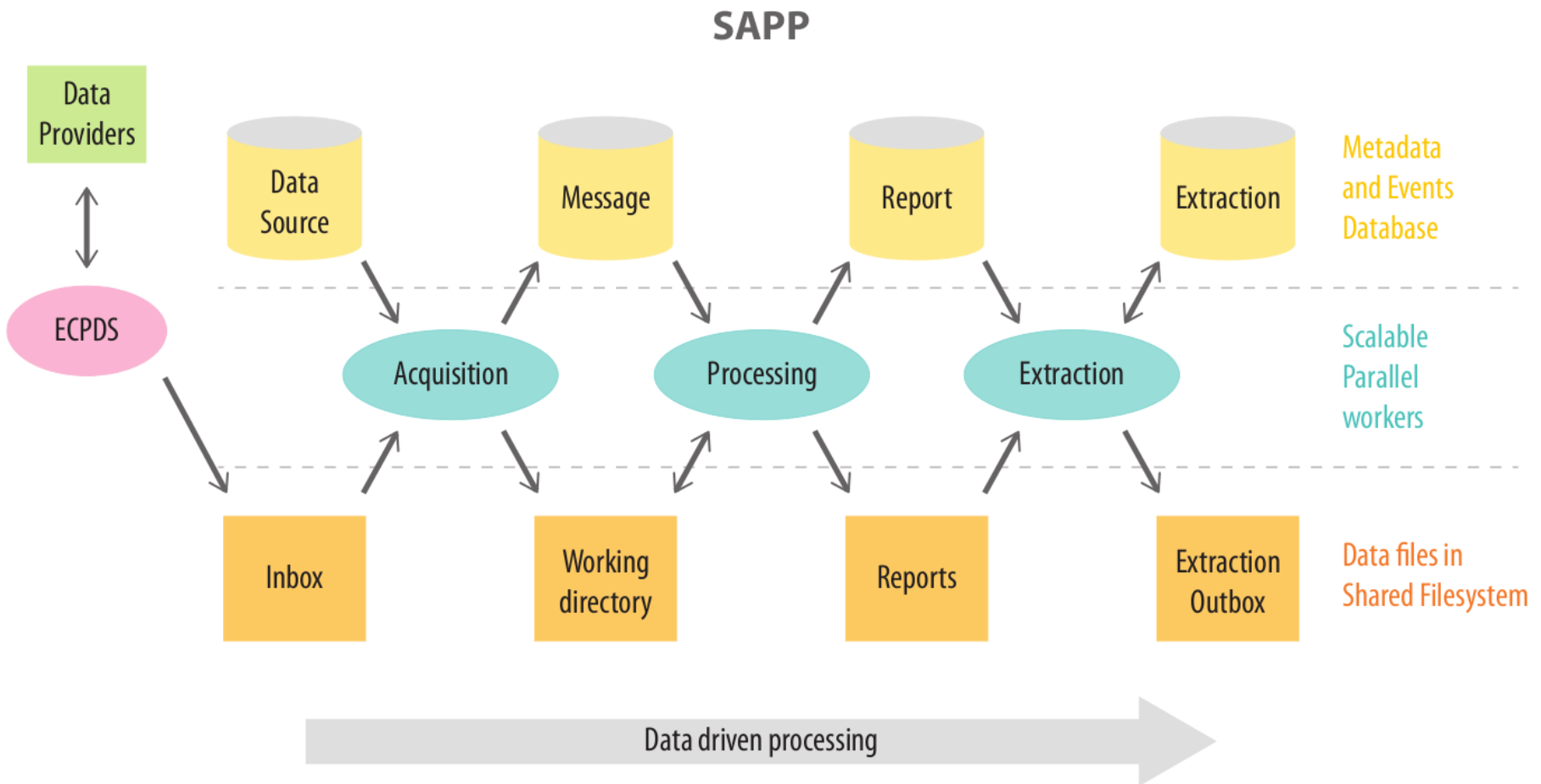
# Background

- ECMWF Newsletter
  - <https://www.ecmwf.int/node/17341>
- Irish internal report
  - Available on request
- Irish poster at Wk 28/ASM 2018
  - [http://www.UMR-CNRM.fr/aladin/IMG/pdf/whelanetal\\_asm2018\\_poster.pdf](http://www.UMR-CNRM.fr/aladin/IMG/pdf/whelanetal_asm2018_poster.pdf)
- NordNWP report on observation pre-processing

# Irish testing

# What is SAPP

- VM (CentOS 7) with SAPP pre-installed



# What is SAPP

- A few python scripts and a database
  - acq\_scanner.py: acquire and store GTS messages
  - proc\_scanner.py: process messages by DEQC
  - ext\_sched.py: extract reports for data assimilation
  - MySQL database: message/report meta-data
- Django web interface



# SAPP: done

- VM installed and running since 2017
- Conventional data only
- *preproc* code updated for AMDAR-311008
- 3-hourly extraction for MS1 stream
- Three streams defined for local use:
  - nc: nowcasting (20 min)
  - sc: short cut-off (45 min) - Harmonie
  - lc: long cut-off (2 h); what do we miss?



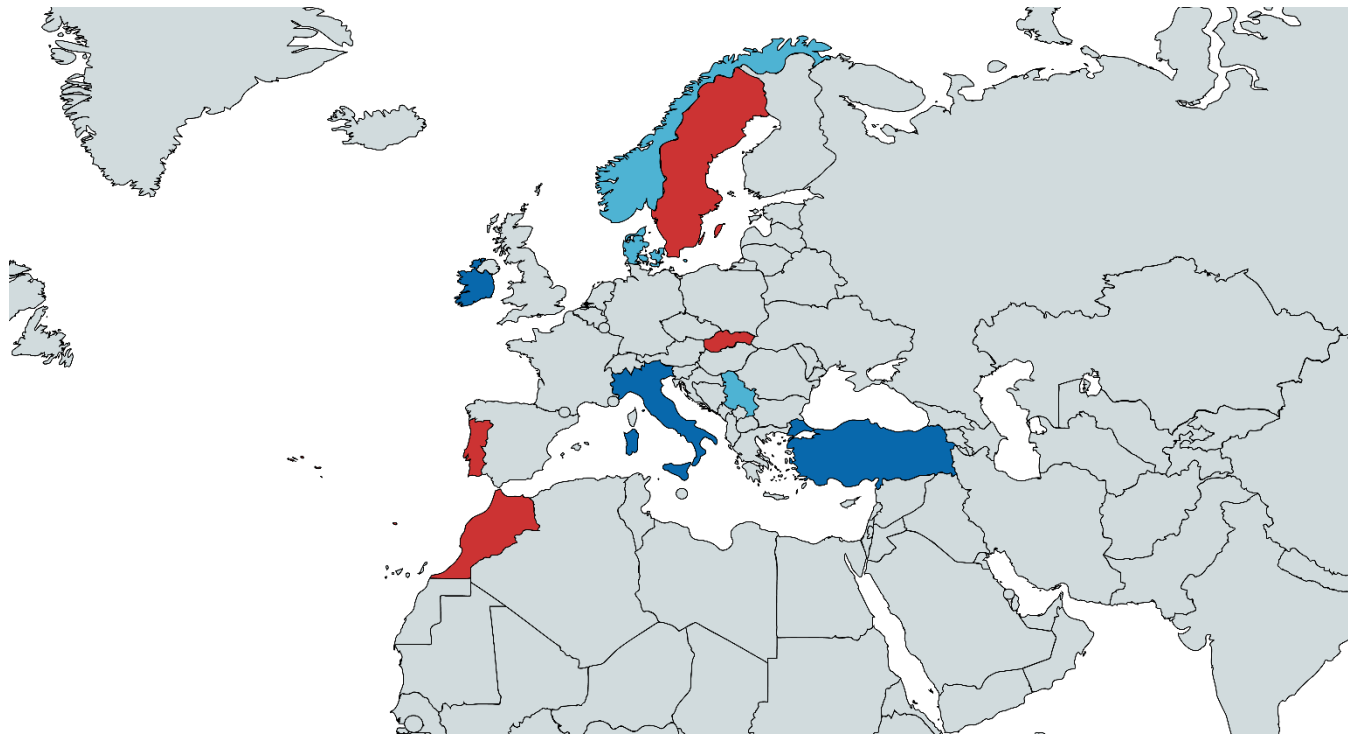
# SAPP: to-do

- BUFR BUOY reports
  - Local SYNOP updates
  - Missing AIREP?
  - Hourly extractions
- 
- A system upgrade from ECMWF may help

# Status & future development

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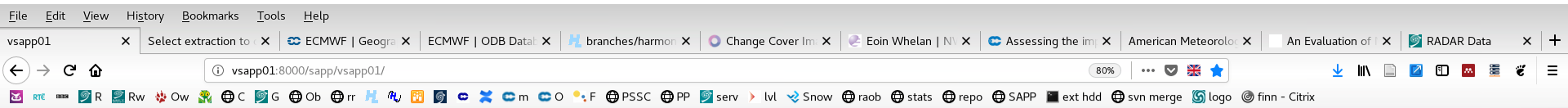
- ECMWF TAC meeting (October 2018)
- Operational implementation
- May be useful for COPE and ODB-2 changes



# Demo / screenshots ...

- <http://vsapp01:8000>
- or next slide ...

# Web interface



## vsapp01 web tools

### Main

#### Config DB

[Configure vsapp01 \(ie datasource, deqc, deqc\\_route, extraction tables\)](#)

#### Supervisor

[vsapp01 process manager](#)

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[Proc: data tracker \(acq->proc->ext\)](#)

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### Charts

#### Timeliness charts/maps

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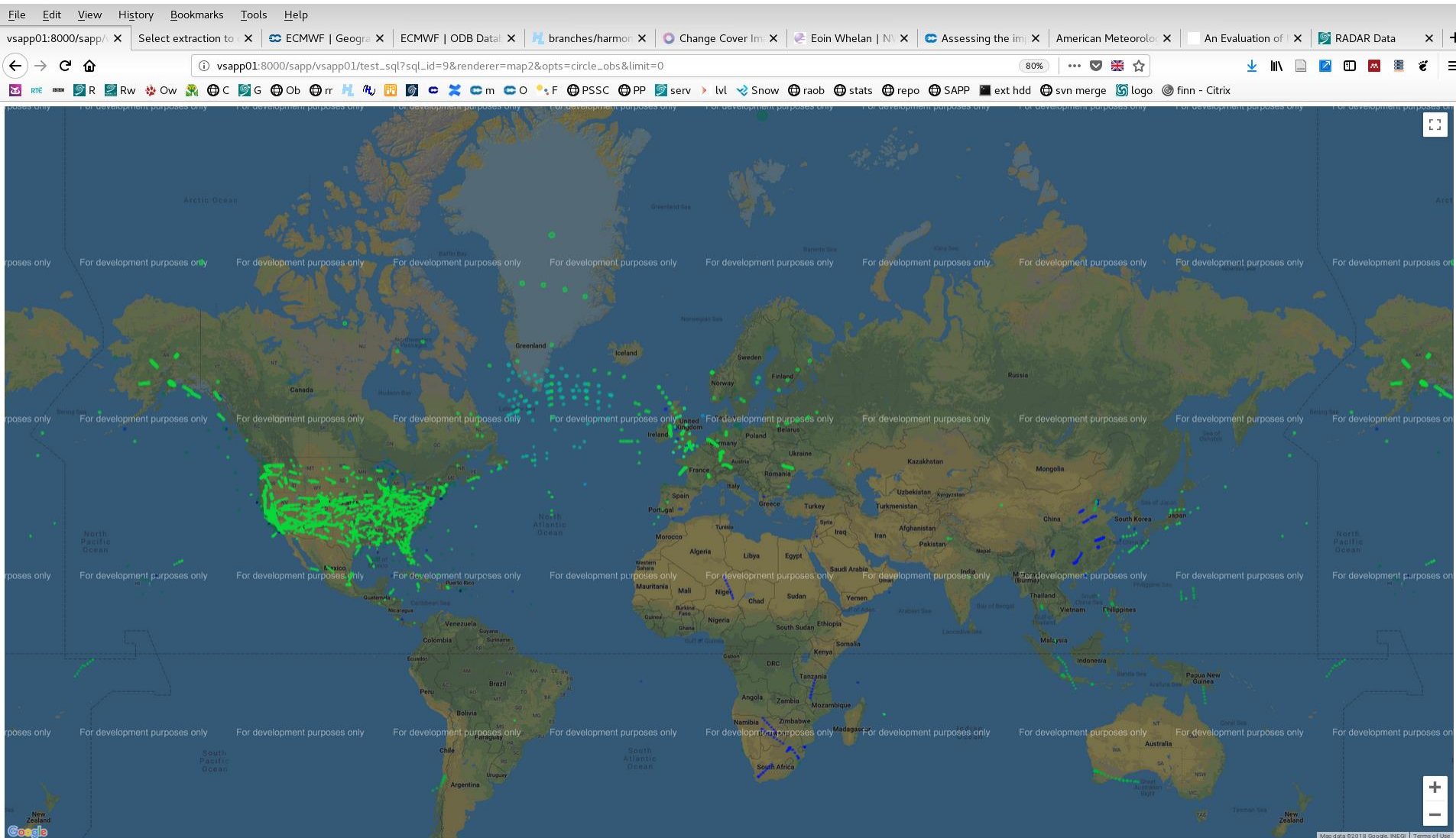
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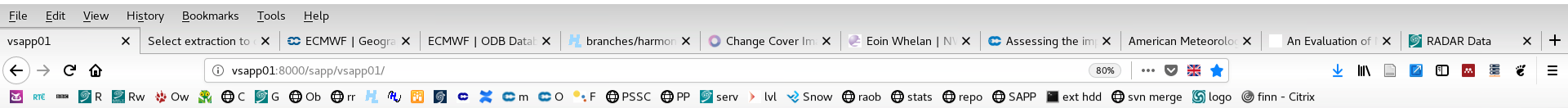
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vsapp01:8000/sapp/vsapp01/chart\_timeliness\_hist/timeliness\_hist?deqc=BSSH&orig\_id=&subtype=&datasource=&from\_date=2015-06-01&to\_date=2016-01-01

# Map (last 10 min)



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# BUFR templates (EIDB)

vsapp01:8000/sapp/vsapp01/test\_sql?sql\_id=13&renderer=tracker&limit=10000

datasource deqc type stype ttaai cccc md5templ templ ingdate firstdate

Show 25 entries Search:

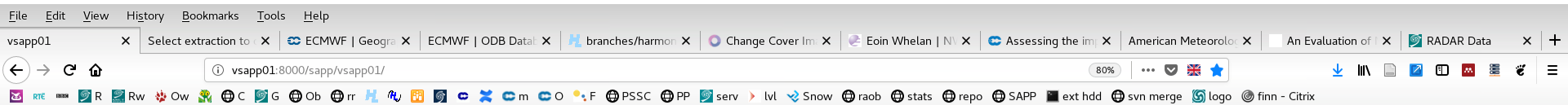
datasource	deqc	type	stype	ttaii	cccc	md5templ	templ	ingdate	firstdate
egrr_gts	BSSH	0	0	ISIA21	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 09:11:53	2017-09-14 15:31:28
egrr_gts	BSSH	0	0	ISIA22	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 09:11:53	2017-09-14 15:31:29
egrr_gts	BSSH	0	0	ISIA23	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 09:14:54	2017-09-14 15:31:29
egrr_gts	BSSH	0	0	ISMA01	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 12:09:14	2017-09-14 15:31:28
egrr_gts	BSSH	0	0	ISMA22	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 12:11:15	2017-09-14 18:11:42
egrr_gts	BSSH	0	0	ISMA23	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 12:14:16	2017-09-14 18:14:43
egrr_gts	BSSH	0	0	ISNA21	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 14:09:10	2017-09-14 16:09:47
egrr_gts	BSSH	0	0	ISNA22	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 14:11:11	2017-09-14 16:11:48
egrr_gts	BSSH	0	0	ISNA23	EIDB	b05d414da069547a89ddabf068475fe6	307080	2018-09-19 14:14:12	2017-09-14 16:14:49
egrr_gts	BSSH	1	0	ISSA01	EIDB	a64f253b1c6c98cdf829c42343ab113	308009	2018-09-17 12:05:01	2017-09-21 18:10:01
egrr_gts	BSSH	1	0	ISSA21	EIDB	a64f253b1c6c98cdf829c42343ab113	308009	2018-09-19 09:14:54	2017-10-06 09:19:06
egrr_gts	BSSH	1	0	ISSA22	EIDB	a64f253b1c6c98cdf829c42343ab113	308009	2018-09-19 14:16:13	2017-09-14 15:31:29
egrr_gts	BTEM	2	0	IUKA01	EIDB	e124f71c6d161c5e0edce926306f300c	309052,1081,1082,2017,2067,2081,2082,2084,2095,2096,2097,2191,25061	2018-09-18 00:19:40	2017-09-16 00:09:15
egrr_gts	BTEM	2	0	IUSA01	EIDB	e124f71c6d161c5e0edce926306f300c	309052,1081,1082,2017,2067,2081,2082,2084,2095,2096,2097,2191,25061	2018-09-17 00:59:57	2017-09-23 13:09:33
egrr_gts	BUOY	1	0	IOBA21	EIDB	41e496b3c69ca6e535429778d2c8cbbb	315008	2018-09-19 10:19:23	2017-09-14 15:31:29
egrr_gts	BUOY	1	0	IOBA22	EIDB	41e496b3c69ca6e535429778d2c8cbbb	315008	2018-09-19 09:19:56	2017-09-14 15:31:29

Showing 1 to 16 of 16 entries (filtered from 1,610 total entries)

First Previous 1 Next Last



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vsapp01:8000/sapp/vsapp01/chart\_timeliness\_hist/timeliness\_hist?deqc=BSSH&orig\_id=&subtype=&datasource=&from\_date=2015-06-01&to\_date=2016-01-01

# Failed BUOY

vsapp01:8000/sapp/vsapp01/custom\_sql2/data\_tracker

**SAPP Data tracker**

Nrecs:  Status:  Deqc:  Rstype:  Orig id:  Date type:  Date itv:  From date:  To date:  Datasource:  Ttaai:  Cccc:  Odhkey:

deqc  ttaai  cccc  bbb  status  workdir  datasource  mfname  msize  msgdate  ingdate  mtype  mstype  mid  rid  rsize  rtype  rstype  orig\_id

lat  lon  repdate  procdte  nsubsets  ext\_fname

Show  entries

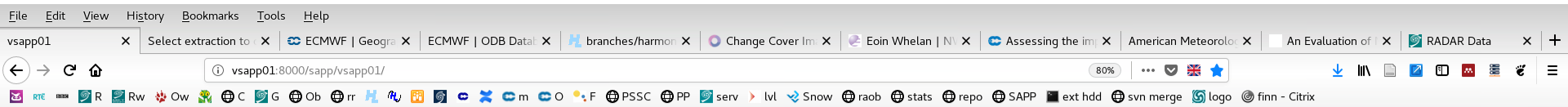
Search:

deqc	ttaii	cccc	bbb	status	workdir	datasource	mfname	msize	msgdate	ingdate	mtype	mstype	mid	rid	rsize	rtype	rstype	orig_id	lat	lon	repdate	procdte	nsubsets	ext_fname
BUOY	<a href="#">IOBX06</a>	KARS	NNN	noout	<a href="#">201809194Fme_5</a>	egrr_gts	EMTN.20180919140401	2884	2018-09-19 13:50:00	2018-09-19 14:04:08	1	25	<a href="#">28323959</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX06</a>	KARS	NNN	noout	<a href="#">20180919c3A06f</a>	egrr_gts	EMTN.20180919140601	294	2018-09-19 13:56:00	2018-09-19 14:06:08	1	25	<a href="#">28324046</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX09</a>	LFVW	NNN	noout	<a href="#">201809194Fme_5</a>	egrr_gts	EMTN.20180919140401	2092	2018-09-19 13:57:00	2018-09-19 14:04:08	1	25	<a href="#">28323961</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX06</a>	KARS	NNN	noout	<a href="#">20180919c3A06f</a>	egrr_gts	EMTN.20180919140601	2064	2018-09-19 13:57:00	2018-09-19 14:06:08	1	25	<a href="#">28324146</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX06</a>	LFVW	NNN	noout	<a href="#">20180919GVsrzY</a>	egrr_gts	EMTN.20180919140901	190	2018-09-19 13:59:00	2018-09-19 14:09:10	1	25	<a href="#">28324326</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX06</a>	KARS	NNN	noout	<a href="#">2018091975Oyji</a>	egrr_gts	EMTN.20180919141402	1208	2018-09-19 14:03:00	2018-09-19 14:14:12	1	25	<a href="#">28324531</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX06</a>	KARS	NNN	noout	<a href="#">2018091975Oyji</a>	egrr_gts	EMTN.20180919141402	288	2018-09-19 14:04:00	2018-09-19 14:14:12	1	25	<a href="#">28324706</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX19</a>	LFVW	NNN	noout	<a href="#">2018091975Oyji</a>	egrr_gts	EMTN.20180919141402	160	2018-09-19 14:06:00	2018-09-19 14:14:12	1	25	<a href="#">28324563</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX06</a>	LFVW	NNN	noout	<a href="#">2018091975Oyji</a>	egrr_gts	EMTN.20180919141402	918	2018-09-19 14:08:00	2018-09-19 14:14:12	1	25	<a href="#">28324664</a>	<a href="#">null</a>										
BUOY	<a href="#">IOBX06</a>	KARS	NNN	noout	<a href="#">20180919efZv4r</a>	egrr_gts	EMTN.20180919141902	1832	2018-09-19 14:09:00	2018-09-19 14:20:15	1	25	<a href="#">28324905</a>	<a href="#">null</a>										

Showing 1 to 10 of 25 entries

First Previous 1 2 3 Next Last

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# WIGOS AMDAR (AMDW)

File Edit View History Bookmarks Tools Help  
SAPP DataTables x Select extraction to x ECMWF | Geogr x ECMWF | ODB Data x branches/harmon x Change Cover Im x Eoin Whelan | N x Assessing the im x American Meteorolo x An Evaluation of x RADAR Data x  
vsapp01:8000/sapp/vsapp01/custom\_sql2/gts\_monitor 80%  
RTE R Rw Ow C G Ob rr H U B C X m O .F PSSC PP serv lvl Snow raob stats repo SAPP ext hdd svn merge logo finn - Citrix

## gts\_monitor

Desc: Processing stats of messages indexed by ttaail,cccc,deqc,datasource

Params:  
• itv: check messages ingested within last [itv] hours

Itv:

active deqc datasource ttaail cccc ing assigned compl tot\_msg perc

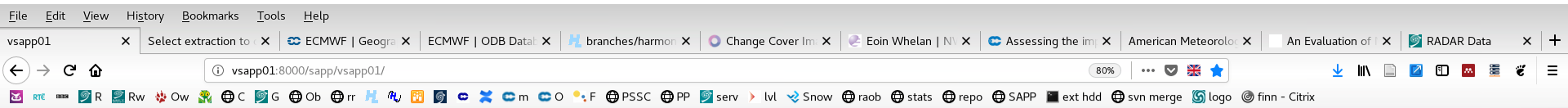
Show 25 entries Search:

active	deqc	datasource	ttaail	cccc	ing	assigned	compl	tot_msg	perc
1	AMDW	egrr_gts	IUAX02	KARP	0	0	3469	3469	100
1	AMDW	egrr_gts	IUAD01	EGRR	0	0	2622	2622	100
1	AMDW	egrr_gts	IUAA01	EGRR	0	0	729	729	100
1	AMDW	egrr_gts	IUAX01	AMMC	0	0	468	468	100
1	AMDW	egrr_gts	IUAX01	MMMX	0	0	267	267	100
1	AMDW	egrr_gts	IUAC01	RKSL	0	0	233	233	100
1	AMDW	egrr_gts	IUAE01	EGRR	0	0	141	141	100
1	AMDW	egrr_gts	IUAH01	EGRR	0	0	130	130	100
1	AMDW	egrr_gts	IUAC01	EGRR	0	0	78	78	100
1	AMDW	egrr_gts	IUAG01	EGRR	0	0	54	54	100
1	AMDW	egrr_gts	IUAG01	RKSL	0	0	6	6	100
1	AMDW	egrr_gts	IUAX01	RKSL	0	0	3	3	100
1	AMDW	egrr_gts	IUAB01	EGRR	0	0	2	2	100
1	AMDW	egrr_gts	IUAI01	EGRR	0	0	2	2	100
1	AMDW	egrr_gts	IUAL01	EGRR	0	0	1	1	100
1	AMDW	egrr_gts	IUAC01	RJTD	0	0	0	47	
1	AMDW	egrr_gts	IUAC02	RJTD	0	0	0	6	

Showing 1 to 17 of 17 entries (filtered from 2,578 total entries)

First Previous 1 Next Last

# Web interface



## vsapp01 web tools

### Main

#### Config DB

[Configure vsapp01 \(ie datasource, deqc, deqc\\_route, extraction, etc\)](#)

#### Supervisor

[vsapp01 process manager](#)

[vsapp01 system monitor](#)

#### Proc Monitor

[Proc: data tracker \(acq->proc->ext\)](#)

[Proc: data availability \(incl. GTS and Station metadata\)](#)

[Proc: Yesterday's 24h processing data volumes](#)

[Proc: last 24h processing stats](#)

[Proc: last 2hrs proc stats \(details\)](#)

[Proc: 24hrs BUFR templates proc status](#)

#### Acq Monitor

[Acq: last 24h acq data volumes](#)

[Acq: datasource no data check](#)

[Acq: datasource inbox file counts](#)

[Acq: incoming BUFR templates tracking](#)

### Charts

#### Timeliness charts/maps

[Timeliness \(repdate-ingdate\) for data processed 'shift' days ago between 'hh1' and 'hh2' hours \(parameters: deqc, stype, orig\\_id, shift, usedate\)](#)

[Timeliness history: daily count of processed reports and min,avg,max delays \(parameters: deqc, stype, orig\\_id, datasource, from\\_date, to\\_date\)](#)

[Proc: 00Z BSSH stations timeliness \(color coded\)](#)

#### Volumes/counts/subsets charts

[Proc: yday acq/proc timeline \(ie BSSH\)](#)

[Proc: yday proc volumes in KB](#)

[Proc: yday proc subsets by datatype \(source:deqc:subtype\)](#)

[Acq: acq stats history \(eg egrr\\_gts\)](#)

[Proc: Data volumes history \(eg egrr BSSH 180\)](#)

#### Extraction analysis

[DA vs DCDA Extractions history \(parameters: deqc, stype, orig\\_id, cycle, from\\_date, to\\_date\)](#)

[BUFR0001 DA,DC ext execution time in secs](#)

[Message, Report, Extraction daily count stats](#)

[DC12 Extraction dupl. filter report](#)

#### [TEST] Coverage maps

[\[TEST\] IAS1 DA00 swaths \(as circles 2D\)](#)

[\[TEST\] IAS1 DA00 swaths \(as poly 3D\)](#)

[\[TEST\] last 10 mins of processed data \(tness<1h\) on map](#)

[\[TEST\] last 10 mins of processed data \(tness<1h\) 3D](#)

[TAC2BUFR: BSSH Stations \(deqc, region, block, date\)](#)

### Extra

#### Other

[Adm: sql/chart test](#)

[Adm: django actions changelog](#)

[Proc: msg processing monitor \(incl. GTS\)](#)

[Proc: on demand 06h msg processing stats](#)

[Proc: on demand 24h report stats by deqc,subtype,repdate](#)

vsapp01:8000/sapp/vsapp01/chart\_timeliness\_hist/timeliness\_hist?deqc=BSSH&orig\_id=&subtype=&datasource=&from\_date=2015-06-01&to\_date=2016-01-01

# Extractions (MS1)

vsapp01:8000/sapp/admin/acq/extraction/?ext\_family=MS1&o=-1

SAPP admin

Home / Acq / Extractions

Select extraction to change

Q:  Search 57 results (1229 total)

Action:  Go 0 of 57 selected

ID	ACTIVE	EXT FAMILY	EXT ITEM	SEQ	DEQC	STYPE	ORIG ID	PP	DATASOURCE
<input type="checkbox"/> 2761	●	MS1	BUFR0001	44	BTEM	113	0	1	
<input type="checkbox"/> 2760	●	MS1	BUFR0001	43	BTEM	112	0	1	
<input type="checkbox"/> 2759	●	MS1	BUFR0001	37	BSSH	172	0	1	
<input type="checkbox"/> 2757	●	MS1	BUFR0001	34	AMDW	146	0	1	
<input type="checkbox"/> 2738	●	MS1	BUFR0001	33	ARPI	144	0	1	
<input type="checkbox"/> 2737	●	MS1	BUFR0001	33	ARPI	143	0	1	
<input type="checkbox"/> 2736	●	MS1	BUFR0001	33	ARPI	142	0	1	
<input type="checkbox"/> 2732	●	MS1	BUFR0001	33	ARPI	141	0	1	
<input type="checkbox"/> 2700	●	MS1	BUFR0001	7	BUOY	27	0	1	
<input type="checkbox"/> 2692	●	MS1	BUF10001	6	BTEM	111	0	1	
<input type="checkbox"/> 2691	●	MS1	BUF10001	5	BTEM	109	0	1	-
<input type="checkbox"/> 2690	●	MS1	BUF10001	4	BSSH	180	0	1	-
<input type="checkbox"/> 2689	●	MS1	BUF10001	3	BSSH	178	0	1	-
<input type="checkbox"/> 2688	●	MS1	BUF10001	2	BSSH	176	0	1	-
<input type="checkbox"/> 2687	●	MS1	BUF10001	1	BSSH	170	0	1	-
<input type="checkbox"/> 2686	●	MS1	BUFR0001	40	BSSH	180	0	1	
<input type="checkbox"/> 2685	●	MS1	BUFR0001	39	BSSH	178	0	1	
<input type="checkbox"/> 2684	●	MS1	BUFR0001	38	BSSH	176	0	1	
<input type="checkbox"/> 2683	●	MS1	BUFR0001	37	BSSH	170	0	1	
<input type="checkbox"/> 2682	●	MS1	BUFR0001	11	META	140	0	1	
<input type="checkbox"/> 2669	●	MS1	BUFR0001	36	PGPS	110	0	1	
<input type="checkbox"/> 2666	●	MS1	BUFR0001	35	B004	145	0	1	
<input type="checkbox"/> 2665	●	MS1	BUFR0001	24	AMDA	144	0	1	

**FILTER**

By pp

- All
- 0
- 1
- 2
- 3
- 4

By ext family

- All
- DA1
- DC1
- GRIB
- MACC
- MS1
- OCEA

