

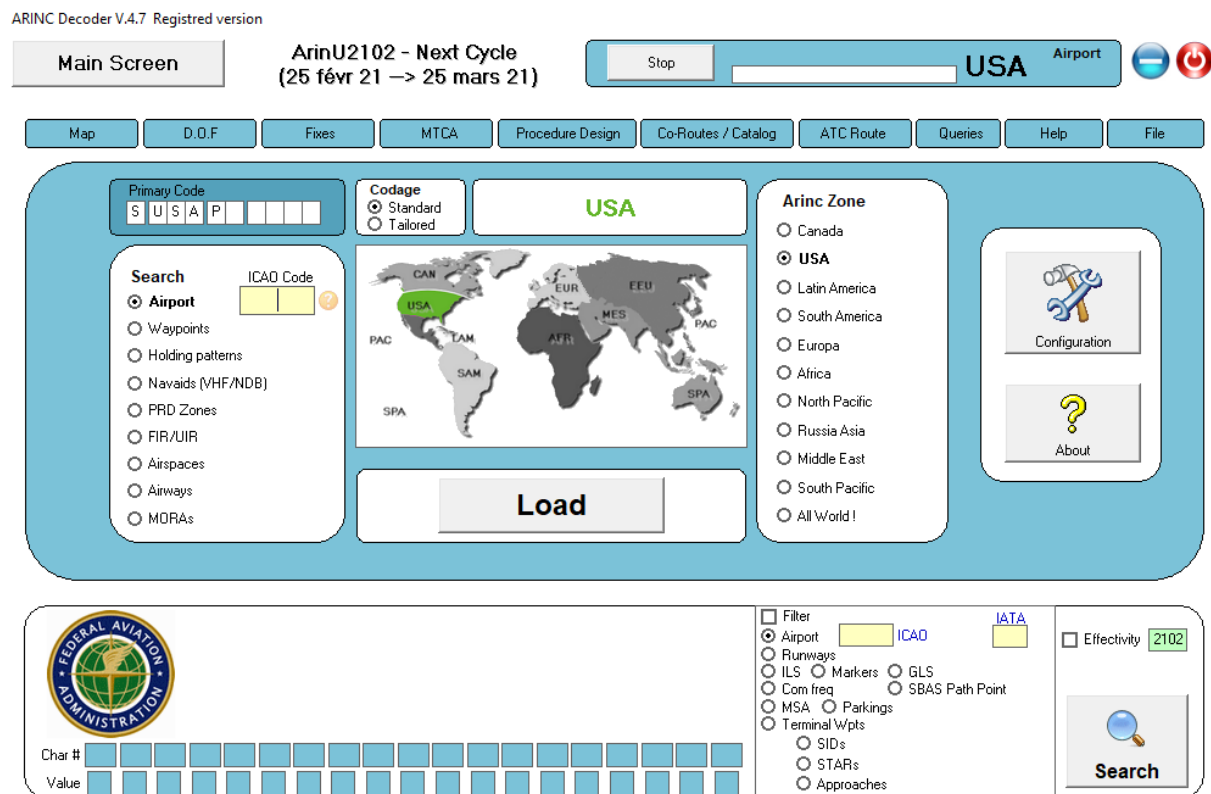
RNP(AR) Verifications for operation approval. Monthly check of your procedures

We will make those verifications with 2 CIFP files. This can work of course with any other file...

To obtain the very last CIFP file download it and install it as per this other tutorial:

<http://arindecoder.fr/Tuto8.pdf>

When you have the last file, you can compare it with another (older) one. It can be the previous one or several cycles before.

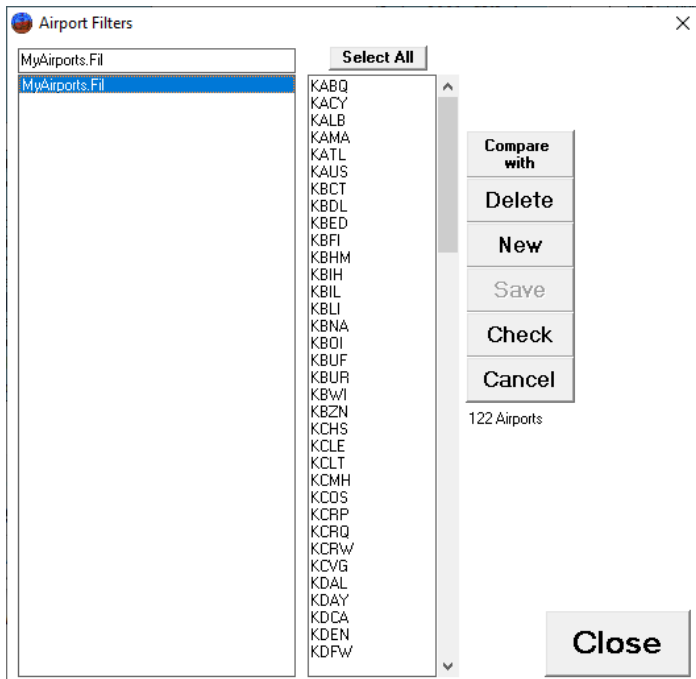


In our today's work, we will study all the changes in RNP(AR) approaches in a list of 122 airports of our web (operation manuel), between next cycle (2102) and actual cycle (2101).

RNP(AR) Verifications for operation approval. Monthly check of your procedures	1
check the New RNP(AR) and the RNP(AR) that have been deleted	2
see all RNP(AR) procedures that have received a modification.....	4
Filtering the modifications (light and major)	6
How to visualize quickly the changes between 2 cycles:	9
Bonus... (let's check if this is true)	11

The filter is done to avoid to work on all airports of your file if you only need to work with the fields you operate.

The filter is done via the module "Filter management" in configuration windows.

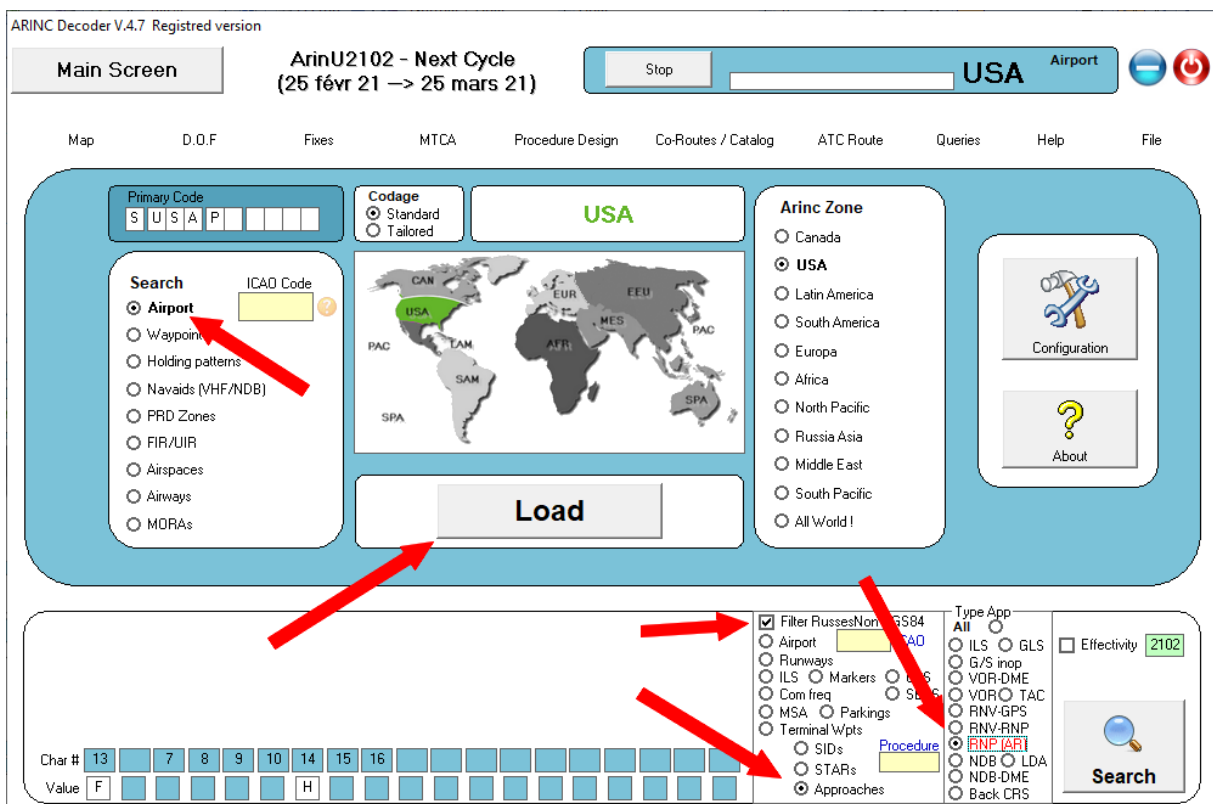


I made a random filter, of airport having some RNP-(AR)

We will

[check the New RNP\(AR\) and the RNP\(AR\) that have been deleted](#)

Select your filter + Airports + Approaches + RNP AR... and press the button "LOAD"



This will show you all existing RNP AR in the selected cycle, in the airports of your Filter...

ARINC Decoder V.4.7 Registered version

Main Screen **ArinU2102 - Next Cycle** (25 févr 21 → 25 mars 21) Stop 267 496 datas USA Airport

Map D.O.F Fixes MTCA Procedure Design Co-Routes / Catalog ATC Route Queries Help

Import Export Save the list Of Selected Data Un Select All Select All Reverse
 Cls Select this List 400 data(s) Compare Display All Sort

KABQ	-	H03-Z	-	RNAV	RNP	-	AR
KABQ	-	H08-Z	-	RNAV	RNP	-	AR
KABQ	-	H21-Y	-	RNAV	RNP	-	AR
KABQ	-	H21-Z	-	RNAV	RNP	-	AR
KABQ	-	H26-Y	-	RNAV	RNP	-	AR
KABQ	-	H26-Z	-	RNAV	RNP	-	AR
KACY	-	H13-Z	-	RNAV	RNP	-	AR
KACY	-	H31-Z	-	RNAV	RNP	-	AR
KALB	-	H01-Z	-	RNAV	RNP	-	AR
KALB	-	H19-Z	-	RNAV	RNP	-	AR
KAMA	-	H04-Z	-	RNAV	RNP	-	AR
KAMA	-	H13-Z	-	RNAV	RNP	-	AR
KAMA	-	H22-Z	-	RNAV	RNP	-	AR
KAMA	-	H31-Z	-	RNAV	RNP	-	AR
KATL	-	H08LZ	-	RNAV	RNP	-	AR
KATL	-	H10-Z	-	RNAV	RNP	-	AR
KATL	-	H26RZ	-	RNAV	RNP	-	AR
KATL	-	H28-Z	-	RNAV	RNP	-	AR
KAUS	-	H17LZ	-	RNAV	RNP	-	AR
KAUS	-	H17RZ	-	RNAV	RNP	-	AR

Group ARINC Coding

Char # 13 7 8 9 10 14 15 16 Value F H

Filter MyAirports (122) Type App All
 Airport ICAO ILS GLS
 Runways G/S inop VDR-DME
 ILS Markers GLS VDR-TAC
 Com freq SBAS RNV-GPS
 MSA Parkings RNV-RNP
 Terminal Wpts Procedure RNP (AR)
 SIDs NDB LDA
 STARs NDB-DME
 Approaches All Back CRS

Effectivity 2102 7 793 results Search

Click on "Compare"

400 data(s) **Compare** Display All

ABQ - H03-Z - RNAV RNP - AR
 ABQ - H08-Z - RNAV RNP - AR

Compare deletions and additions from cycle to cycle...

Select the file you want to compare with.... (We said the actual one, 2101)

Compare Display All Sort

RNP - AR	Cycle to compare.
RNP - AR	ArinU2102.dat
RNP - AR	ArinU2101.dat
RNP - AR	
RNP - AR	
RNP - AR	
RNP - AR	

Here is the result... no deletion, only some additions:

ARINC Decoder V.4.7 Registered version

Main Screen ArinU2102 - Next Cycle (25 févr 21 → 25 mars 21) Stop 5 changes USA Airport

Map D.O.F Fixes MTCA Procedure Design Co-Routes / Catalog ATC Route Queries Help

Import Export Save the list Of Selected Dates Un Select All Select All Reverse

Check App Cls Select this List 400 data(s) Compare Display All Sort

Comparison Airport cycle 2102 Vs 2101... (Sorted).
 "Export" To create a file, Double click to close.

KABQ - H03-Z - RNAV RNP	KLAS - H08R - RNAV RNP - AR (New)
KABQ - H08-Z - RNAV RNP	KLAS - H19LZ - RNAV RNP - AR (New)
KABQ - H21-Y - RNAV RNP	KLAS - H19RZ - RNAV RNP - AR (New)
KABQ - H21-Z - RNAV RNP	KLAS - H26L - RNAV RNP - AR (New)
KABQ - H26-Y - RNAV RNP	KLAS - H26R - RNAV RNP - AR (New)
KABQ - H26-Z - RNAV RNP	
KACY - H13-Z - RNAV RNP	
KACY - H31-Z - RNAV RNP	
KALB - H01-Z - RNAV RNP	
KALB - H19-Z - RNAV RNP	
KAMA - H04-Z - RNAV RNP	
KAMA - H13-Z - RNAV RNP	
KAMA - H22-Z - RNAV RNP	
KAMA - H31-Z - RNAV RNP	
KATL - H08LZ - RNAV RNP	
KATL - H10-Z - RNAV RNP	
KATL - H26RZ - RNAV RNP	
KATL - H28-Z - RNAV RNP	
KAUS - H17LZ - RNAV RNP	
KAUS - H17RZ - RNAV RNP	

Group

ARINC Coding

Char # 13 7 8 9 10 14 15 16 Value F H

Filter MyAirports (122) Airport Runways ILS Com freq MSA Terminal Wpts SIDs STARs Approaches

ICAO Markers SBAS GLS SBAS RNP (AR) NDB LDA NDB-DME Back CRS

Type App All ILS GLS G/S inop VDR-DME VDR TAC RNV-GPS RNV-RNP NDB LDA NDB-DME Back CRS

Effectivity 2102

7 793 results

Search

We will

See all RNP(AR) procedures that have received a modification.

Back to the first screen. Select "Effectivity" with number equivalent to your file to check (2102)

ARINC Decoder V.4.7 Registered version

Main Screen ArinU2102 - Next Cycle (25 févr 21 → 25 mars 21) Stop 5 changes USA Airport

Map D.O.F Fixes MTCA Procedure Design Co-Routes / Catalog ATC Route Queries Help File

Primary Code S U S A P

Codage Standard Tailored

USA

Arinc Zone Canada USA Latin America South America Europa Africa North Pacific Russia Asia Middle East South Pacific All World!

Configuration

About

Search Airport Waypoints Holding patterns Nav aids (VHF/NDB) PRD Zones FIR/UIR Airspaces Airways MORA's

ICAO Code

World Map

Load

Char # 13 7 8 9 10 14 15 16 129 130 131 132 Value F H 2 1 0 2

Filter MyAirports (122) Airport Runways ILS Com freq MSA Terminal Wpts SIDs STARs Approaches

ICAO Markers SBAS GLS SBAS RNP (AR) NDB LDA NDB-DME Back CRS

Type App All ILS GLS G/S inop VDR-DME VDR TAC RNV-GPS RNV-RNP NDB LDA NDB-DME Back CRS

Effectivity 2102

7 793 results

Search

Press "Load"

ARINC Decoder V.4.7 Registered version

Main Screen ArinU2102 - Next Cycle (25 févr 21 → 25 mars 21) Stop 5 changes USA Airport

Map D.O.F Fixes MTCA Procedure Design Co-Routes / Catalog ATC Route Queries Help

Import Export Save the list Of Selected Datas Un Select All Select All Reverse
16 data(s) Compare Display All Sort

KAUS - H17RZ - RNAV RNP - AR	KBED - H11-Y - RNAV RNP - AR
KBED - H29-Y - RNAV RNP - AR	KLAS - H08R - RNAV RNP - AR
KLAS - H19LZ - RNAV RNP - AR	KLAS - H19RZ - RNAV RNP - AR
KLAS - H26L - RNAV RNP - AR	KLAS - H26R - RNAV RNP - AR
KLAX - H24RZ - RNAV RNP - AR	KLAX - H25LZ - RNAV RNP - AR
KMDW - H22LX - RNAV RNP - AR	KRDU - H05LZ - RNAV RNP - AR
KRDU - H05RZ - RNAV RNP - AR	KRDU - H23LZ - RNAV RNP - AR
KRDU - H23RZ - RNAV RNP - AR	KROA - H34-Z - RNAV RNP - AR

Group

ARINC Coding

Char # 13 7 8 9 10 14 15 16 129 130 131 132
Value F H 2 1 0 2

Filter MyAirports (122)
 Airport ICAO
 Runways
 ILS
 Com freq
 MSA
 Terminal Wpts
 SIDs
 STARs
 Approaches All

Type App All
 ILS
 G/S inop
 VDR-DME
 VDR TAC
 RNV-GPS
 RNV-RNP
 RNP (AR)
 NDB LDA
 NDB-DME
 Back CRS

Effectivity 2102
222 results
Search

We have to keep this list, and reload the same procedures with all lines (not only the modified one)

Click on "save the list" it will be stored on the left.

ARINC Decoder V.4.7 Registered version

Main Screen ArinU2102 - Next Cycle (25 févr 21 → 25 mars 21) Stop 267 496 datas USA Airport

Map D.O.F Fixes MTCA Procedure Design Co-Routes / Catalog ATC Route Queries Help

Import Export **Save the list** Of Selected Datas Un Select All Select All Reverse
16 data(s) Compare Display All Sort

Check App

KAUS - H17RZ - RNAV RNP	KBED - H11-Y - RNAV RNP - AR
KBED - H29-Y - RNAV RNP	KBED - H29-Y - RNAV RNP - AR
KLAS - H08R - RNAV RNP	KLAS - H08R - RNAV RNP - AR
KLAS - H19LZ - RNAV RNP	KLAS - H19LZ - RNAV RNP - AR
KLAS - H19RZ - RNAV RNP	KLAS - H19RZ - RNAV RNP - AR
KLAS - H26L - RNAV RNP	KLAS - H26L - RNAV RNP - AR
KLAS - H26R - RNAV RNP	KLAS - H26R - RNAV RNP - AR
KLAX - H24RZ - RNAV RNP	KLAX - H24RZ - RNAV RNP - AR
KLAX - H25LZ - RNAV RNP	KLAX - H25LZ - RNAV RNP - AR
KMDW - H22LX - RNAV RNP	KMDW - H22LX - RNAV RNP - AR
KRDU - H05LZ - RNAV RNP	KRDU - H05LZ - RNAV RNP - AR
KRDU - H05RZ - RNAV RNP	KRDU - H05RZ - RNAV RNP - AR
KRDU - H23LZ - RNAV RNP	KRDU - H23LZ - RNAV RNP - AR
KRDU - H23RZ - RNAV RNP	KRDU - H23RZ - RNAV RNP - AR
KROA - H34-Z - RNAV RNP	KROA - H34-Z - RNAV RNP - AR

Group

ARINC Coding

Char # 13 7 8 9 10 14 15 16 129 130 131 132
Value F H 2 1 0 2

Filter MyAirports (122)
 Airport ICAO
 Runways
 ILS
 Com freq
 MSA
 Terminal Wpts
 SIDs
 STARs
 Approaches Procedure

Type App All
 ILS
 G/S inop
 VDR-DME
 VDR TAC
 RNV-GPS
 RNV-RNP
 RNP (AR)
 NDB LDA
 NDB-DME
 Back CRS

Effectivity 2102
222 results
Search

Uncheck "Effectivity" and click on "Search" (this to reload all the approaches)

ARINC Decoder V.4.7 Registered version

Main Screen **ArinU2102 - Next Cycle** (25 févr 21 → 25 mars 21) 267 496 datas USA Airport

Map D.O.F Fixes MTC A Procedure Design Co-Routes / Catalog ATC Route Queries Help

Import Export Save the list Of Selected Dates Un Select All Select All Reverse

Check App Cs Select this List 400 data(s) Compare Display All Sort

KAUS - H17RZ - RNAV RNP - AR	KABQ - H03-Z - RNAV RNP - AR
KBED - H11-Y - RNAV RNP - AR	KABQ - H08-Z - RNAV RNP - AR
KBED - H29-Y - RNAV RNP - AR	KABQ - H21-Y - RNAV RNP - AR
KLAS - H08R - RNAV RNP - AR	KABQ - H21-Z - RNAV RNP - AR
KLAS - H19LZ - RNAV RNP - AR	KABQ - H26-Y - RNAV RNP - AR
KLAS - H19RZ - RNAV RNP - AR	KABQ - H26-Z - RNAV RNP - AR
KLAS - H26L - RNAV RNP - AR	KACY - H13-Z - RNAV RNP - AR
KLAS - H26R - RNAV RNP - AR	KACY - H31-Z - RNAV RNP - AR
KLAX - H24RZ - RNAV RNP - AR	KALB - H01-Z - RNAV RNP - AR
KLAX - H25LZ - RNAV RNP - AR	KALB - H19-Z - RNAV RNP - AR
KMDW - H22LX - RNAV RNP - AR	KAMA - H04-Z - RNAV RNP - AR
KRDU - H05LZ - RNAV RNP - AR	KAMA - H13-Z - RNAV RNP - AR
KRDU - H05RZ - RNAV RNP - AR	KAMA - H22-Z - RNAV RNP - AR
KRDU - H23LZ - RNAV RNP - AR	KAMA - H31-Z - RNAV RNP - AR
KRDU - H23RZ - RNAV RNP - AR	KATL - H08LZ - RNAV RNP - AR
KROA - H34-Z - RNAV RNP - AR	KATL - H10-Z - RNAV RNP - AR
	KATL - H26RZ - RNAV RNP - AR
	KATL - H28-Z - RNAV RNP - AR
	KAUS - H17LZ - RNAV RNP - AR
	KAUS - H17RZ - RNAV RNP - AR

Group

ARINC Coding

Char # 13 7 8 9 10 14 15 16 Value F H

Filter MyAirports (122) Type App All

Airport ICAO ILS GLS Runways G/S inop VDR-DME Com freq SBAS VDR-TAC MSA Parkings RNV-GPS Terminal Wpts RNV-RNP SIDs Procedure STARs NDB LDA Approaches All NDB-DME Back CRS

Effectivity 2102

7 793 results

Search

You can select any of the procedure and the table will be displayed,

Visualization

Approach - KLAX - H25LZ (AR)

Via	Seq	Pt	Fix	Typ	F/O	Mag	CrS	Alt 1	Alt 2	Vert Angle	RNP	Speed Limit	Distance Time	CTR	RF Leg	Rec Navaid	Cycle	:2102	Update
CLPUR	10	IF	CLPUR	IAF				+ 10000									Transition	1703	
CLPUR	20	TF	WITZZ					+ 9000			1						Transition	1703	
CLPUR	30	TF	JUDDH					+ 8000			1						Transition	1703	
CLPUR	40	TF	KENZO					+ 7000			1						Transition	1703	
CLPUR	50	TF	SNNAK					+ 6300			1						Transition	1703	
CLPUR	60	TF	GAATE	Inter AF				+ 5000			1						Transition	1703	
CLPUR	70	TF	HUNDA					+ 3600			1						Transition	1703	
CLPUR	80	TF	WAVUD					+ 2200			1						Transition	1703	
CLPUR	90	TF	JIANA					+ 1900			1						Transition	2102	
CRCUS	10	IF	CRCUS	IAF			Btwm	14000	12000			270 Kts					Transition	1711	
CRCUS	20	TF	KRAIN					+ 10000			1						Transition	1703	
CRCUS	30	TF	TAROC					+ 9000			1						Transition	1703	
CRCUS	40	TF	DYMMO					+ 8000			1						Transition	1703	
CRCUS	50	TF	FUELR					+ 7000			1						Transition	1703	
CRCUS	60	TF	GAATE	Inter AF				+ 5000			1						Transition	1703	
CRCUS	70	TF	HUNDA					+ 3600			1						Transition	1703	
CRCUS	80	TF	WAVUD					+ 2200			1						Transition	1703	
CRCUS	90	TF	JIANA					+ 1900			1						Transition	2102	
DAHJR	10	IF	DAHJR	Inter AF				+ 6000				210 Kts					Transition	1705	
DAHJR	20	TF	FODIG					+ 4500			1						Transition	1711	
DAHJR	30	RF	WAVUD		R	251.2°		+ 2200			1		8.2 Nm		CFDWW		Transition	1711	
DAHJR	40	TF	JIANA					+ 1900			1						Transition	2102	
SEAVU	10	IF	SEAVU	IAF			Btwm	14000	12000			270 Kts					Transition	1711	
SEAVU	20	TF	KRAIN					+ 10000			1						Transition	1602	
SEAVU	30	TF	TAROC					+ 9000			1						Transition	1602	
SEAVU	40	TF	DYMMO					+ 8000			1						Transition	1602	
SEAVU	50	TF	FUELR					+ 7000			1						Transition	1602	
SEAVU	60	TF	GAATE	Inter AF				+ 5000			1						Transition	1602	
SEAVU	70	TF	HUNDA					+ 3600			1						Transition	1703	
SEAVU	80	TF	WAVUD					+ 2200			1						Transition	1703	
SEAVU	90	TF	JIANA					+ 1900			1						Transition	2102	
TRNDD	10	IF	TRNDD	Inter AF				+ 5000				210 Kts					Transition	1703	
TRNDD	20	TF	HIPED					+ 4500			1						Transition	1711	
TRNDD	30	RF	HUNDA		L	251.1°		+ 3600			1		3.5 Nm		CFDWW		Transition	1711	
TRNDD	40	TF	WAVUD					+ 2200			1						Transition	1703	
TRNDD	50	TF	JIANA					+ 1900			1						Transition	2102	
	20	IF	JIANA	FAF				+ 1900										2102	
	30	TF	Rw25L	MaPt	FO			152		-3.00°	0.3							1703	
	40	TF	ZERAN	Go.Arr							1							1602	
	50	TF	CATLY		FO			+ 2000			1							1602	

Close

Page 1

Page 2

Distances

Micro Station

← Swap →

Map

Coordinates

Changes

Compare

Export

Print

Options

Where the update is red, things have changed...

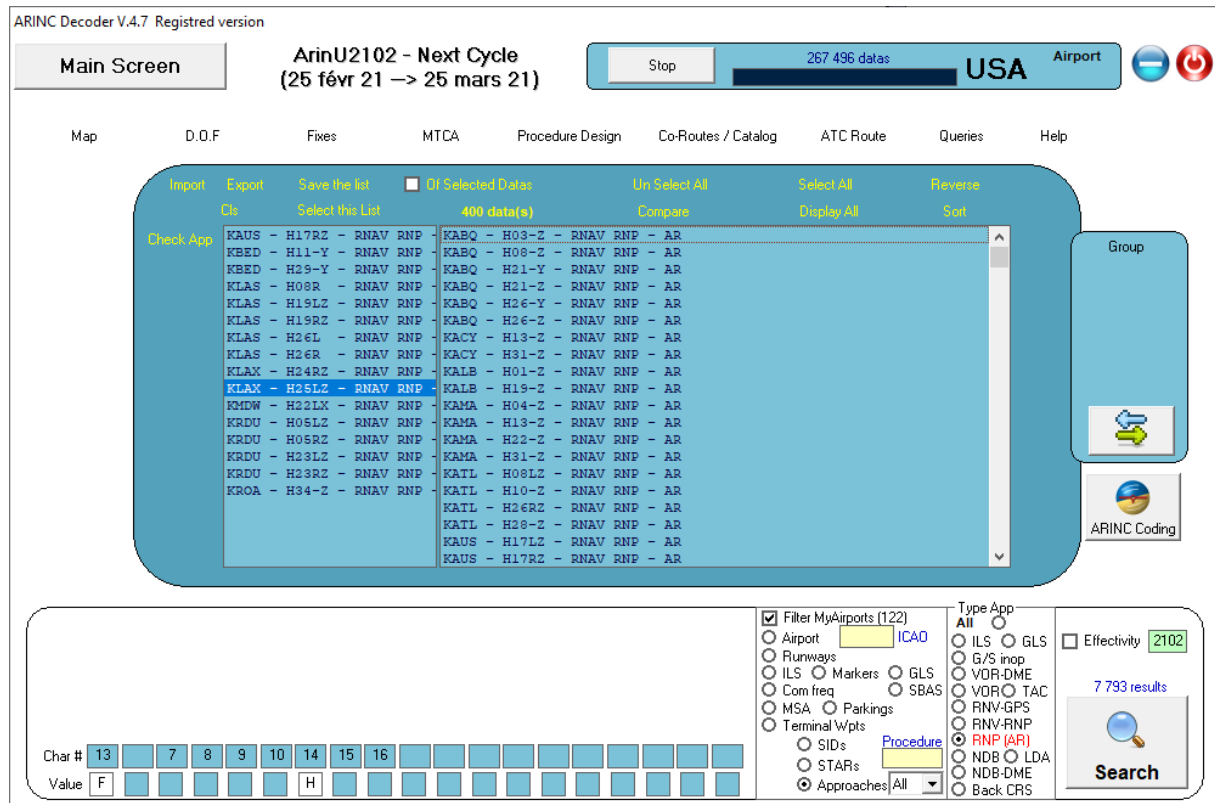
We will

Filtering the modifications (light and major)

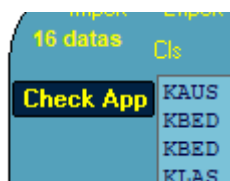
Sometime the changes are very small. For just a 1/10 of magvar deviation, we have the flag of the change but it's no need to recheck everything. There's a way to batch this verification and at the end, get the list of the real and important changes.

On the first screen (no airport loaded and all approaches in the right list), the left list has the list of the modified approaches:

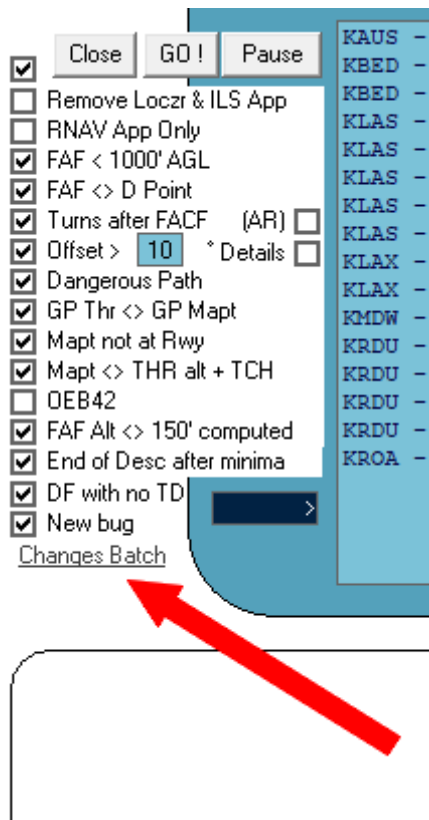
Like this...



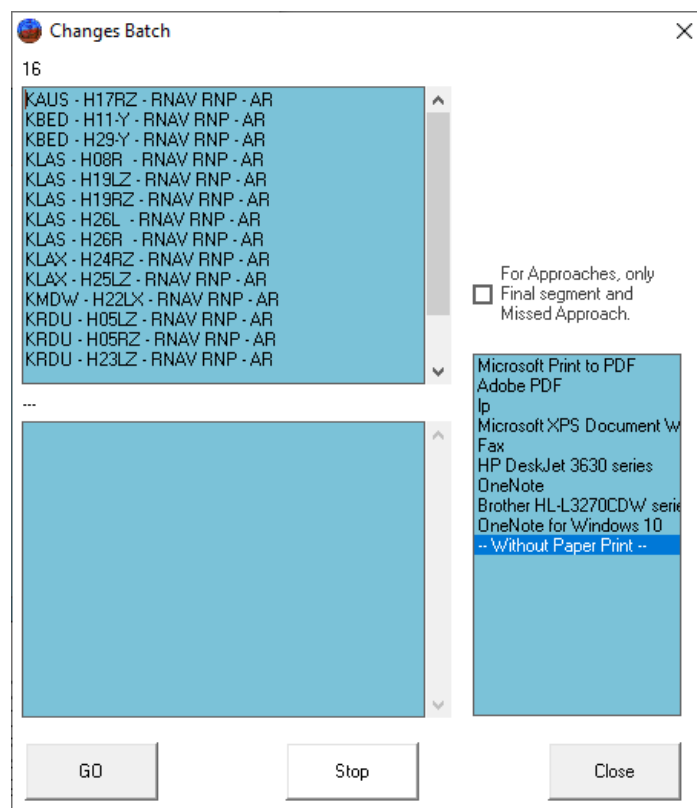
Press on "Check App"



Then on "Changes Batch"

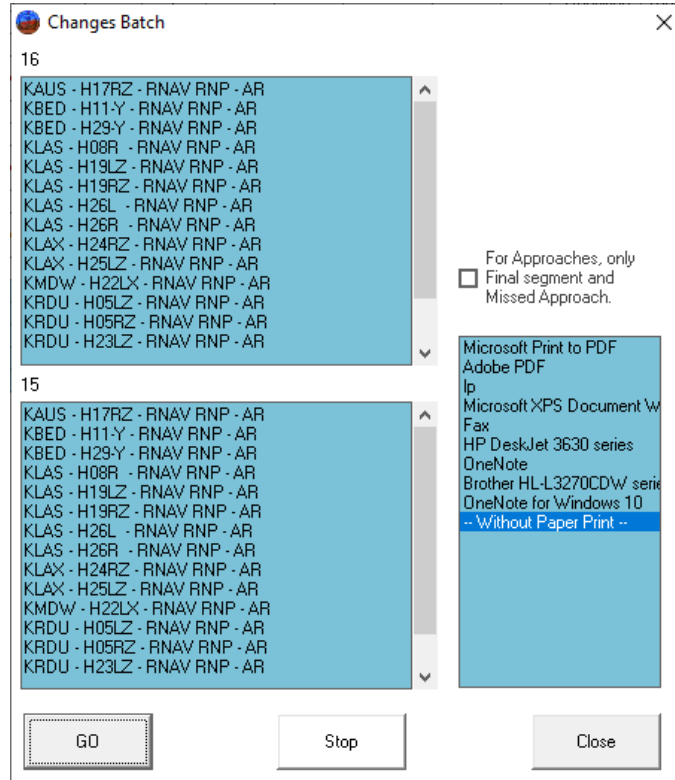


The batch can automatically go to the printer, or not.



And you can check only the final segment (not the transition legs) depending of the need you have for your verifications...

Click on "GO" and few time after the list is limited to the real changes.



(Ok, my example is bad... this cycle, only one dummy change...)

How to visualize quickly the changes between 2 cycles:

Call an airport and a procedure to check.

In the coding table click on the button “Changes” **Changes**

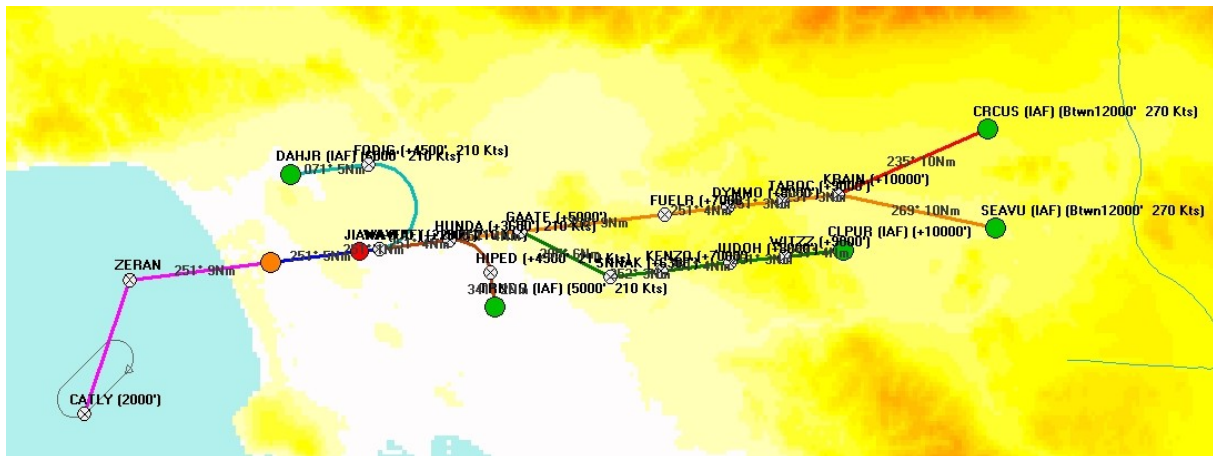
The cells where data have been modified will be highlighted:

Visualization

Approach - KLAX - H25LZ (AP)

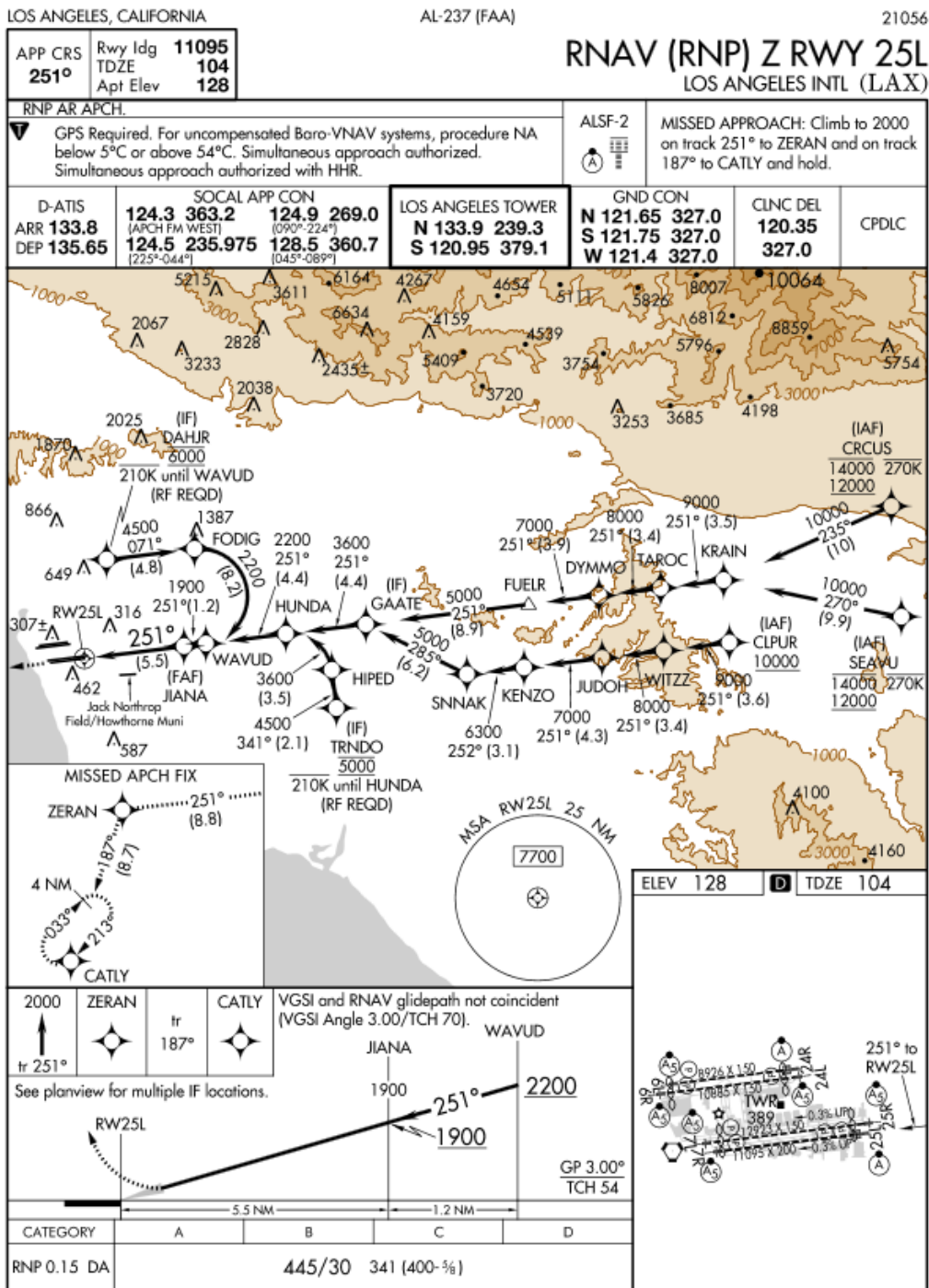
Via	Seq	Pt	Fix	Typ	F/O	Mag	Crs	Alt 1	Alt 2	Vert Angle	RNP	Speed Limit	Distance Time	CTR	RF Leg	Rec Navaid	Cycle	Update
CLPUR	10	IF	CLPUR	IAF				+ 10000									Transition	1703
CLPUR	20	TF	WITZZ					+ 9000			1						Transition	1703
CLPUR	30	TF	JUDDH					+ 8000			1						Transition	1703
CLPUR	40	TF	KENZO					+ 7000			1						Transition	1703
CLPUR	50	TF	SNNAK					+ 6300			1						Transition	1703
CLPUR	60	TF	GAATE	Inter AF				+ 5000			1						Transition	1703
CLPUR	70	TF	HUNDA					+ 3600			1						Transition	1703
CLPUR	80	TF	WAVUD					+ 2200			1						Transition	1703
CLPUR	90	TF	JIANA					+ 1900			1						Transition	2102
CRCUS	10	IF	CRCUS	IAF				Btwn 14000	12000			270 Kts					Transition	1711
CRCUS	20	TF	KRAIN					+ 10000			1						Transition	1703
CRCUS	30	TF	TAROC					+ 9000			1						Transition	1703
CRCUS	40	TF	DYMMO					+ 8000			1						Transition	1703
CRCUS	50	TF	FUELR					+ 7000			1						Transition	1703
CRCUS	60	TF	GAATE	Inter AF				+ 5000			1						Transition	1703
CRCUS	70	TF	HUNDA					+ 3600			1						Transition	1703
CRCUS	80	TF	WAVUD					+ 2200			1						Transition	1703
CRCUS	90	TF	JIANA					+ 1900			1						Transition	2102
DAHJR	10	IF	DAHJR					6000				210 Kts					Transition	1705
DAHJR	20	TF	FODIS					+ 4500			1						Transition	1711
DAHJR	30	RF	WAVUD		R	251.2°		+ 2200			1		8.2 Nm		CFDWW		Transition	1711
DAHJR	40	TF	JIANA					+ 1900			1						Transition	2102
SEAVU	10	IF	SEAVU	IAF				Btwn 14000	12000			270 Kts					Transition	1711
SEAVU	20	TF	KRAIN					+ 10000			1						Transition	1602
SEAVU	30	TF	TAROC					+ 9000			1						Transition	1602
SEAVU	40	TF	DYMMO					+ 8000			1						Transition	1602
SEAVU	50	TF	FUELR					+ 7000			1						Transition	1602
SEAVU	60	TF	GAATE	Inter AF				+ 5000			1						Transition	1602
SEAVU	70	TF	HUNDA					+ 3600			1						Transition	1703
SEAVU	80	TF	WAVUD					+ 2200			1						Transition	1703
SEAVU	90	TF	JIANA					+ 1900			1						Transition	2102
TRNDD	10	IF	TRNDD	Inter AF				5000				210 Kts					Transition	1703
TRNDD	20	TF	HIPED					+ 4500			1						Transition	1711
TRNDD	30	RF	HUNDA		L	251.1°		+ 3600			1		3.5 Nm		CFDWW		Transition	1711
TRNDD	40	TF	WAVUD					+ 2200			1						Transition	1703
TRNDD	50	TF	JIANA					+ 1900			1						Transition	2102
	20	IF		FAF				+ 1900									Transition	2102
	30	TF	Rw25L	MaPt	FD			152		-3.00°	0.3							1703
	40	TF	ZERAN	Go.Arr							1							1602
	50	TF	CATLY		FD			+ 2000			1							1602

The tool tip text give the information, here we see that the FAF waypoint has been renamed from LIMMA to JIANA. All other data are unchanged.



Bonus... (let's check if this is true)

Old cycle:



Next Cycle:

LOS ANGELES, CALIFORNIA

AL-237 (FAA)

20364

APP CRS	Rwy Idg	11095
251°	TDZE	104
	Apt Elev	128

RNAV (RNP) Z RWY 25L

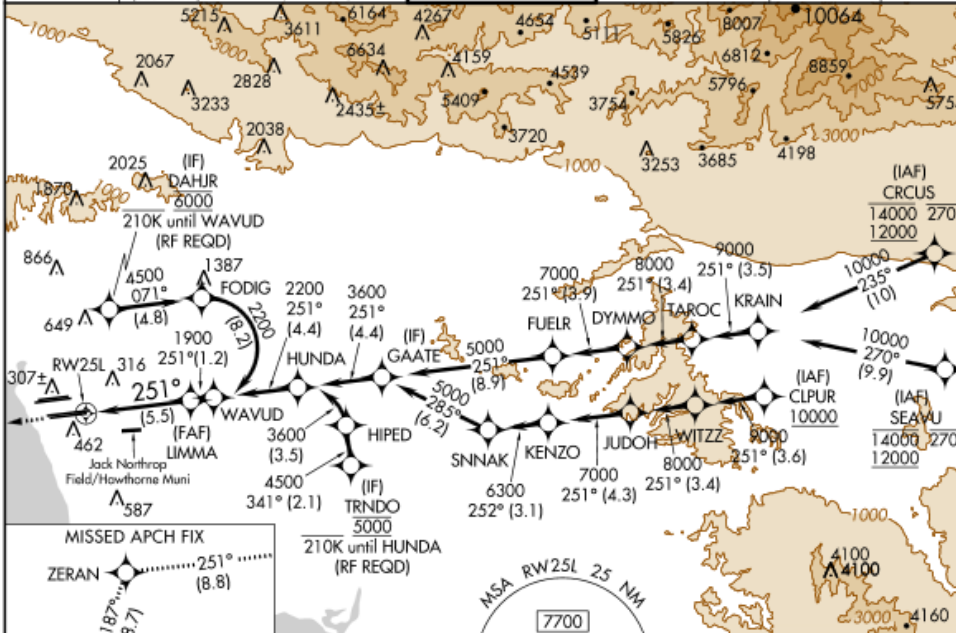
LOS ANGELES INTL (LAX)

▼ For uncompensated Baro-VNAV systems, procedure NA below 5°C (41°F) or above 54°C (130°F). GPS required. Simultaneous approach authorized. Simultaneous approach authorized with HHR.

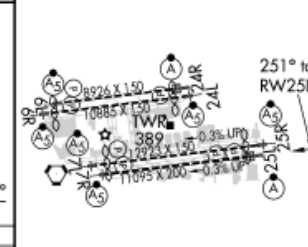
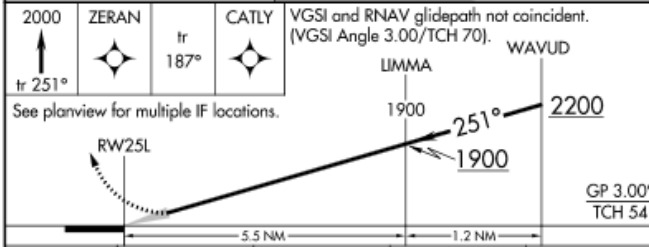


MISSED APPROACH: Climb to 2000 on track 251° to ZERAN and on track 187° to CATLY and hold.

D-ATIS	SOCAL APP CON	LOS ANGELES TOWER	GND CON	CLNC DEL	CPDLC
ARR 133.8	124.3 363.2 124.9 269.0 <small>(ARC31 FM WEST) (090°-224°)</small>	N 133.9 239.3 S 120.95 379.1	N 121.65 327.0 S 121.75 327.0 W 121.4 327.0	120.35 327.0	
DEP 135.65	124.5 235.975 128.5 360.7 <small>(225°-044°) (045°-089°)</small>				



ELEV	128	TDZE	104
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CATEGORY	A	B	C	D
RNP 0.15 DA		445/30	341 (400- $\frac{1}{8}$)	

To be sure, because it's easy, we can select LIMMA in old cycle, and select JIANA in the other cycle, with the little compass we have the confirmation that both waypoints are in the database at the same coordinates.

Track & Distances

From: JIANA 11.7° E

To: LIMMA 11.8° E

Latitude	Longitude	Format
N33565446	W118162484	Arinc 424
N 33° 56' 54.46"	W 118° 16' 24.84"	Deg Min Sec
33.9484611111111	-118.273566666667	Deg decimal
N33.56.9	W118.16.4	Deg Min.1/10 min

Latitude	Longitude	Format
N33565446	W118162484	Arinc 424
N 33° 56' 54.46"	W 118° 16' 24.84"	Deg Min Sec
33.9484611111111	-118.273566666667	Deg decimal
N33.56.9	W118.16.4	Deg Min.1/10 min

Track: Distance: Nm Meters Feet

Compute

MSA R=25Nm MSA R=10Nm MTCA 1Nm MTCA 5Nm MTCA 10Nm MTCA 15

Plot peak altitude

WGS84

Make a line between those two points.

ETP (Equi Time Point No wind)

(if there were any difference we would have plotted the distance / course between the 2 waypoints.)

[Any Question, Any doubt, don't hesitate to ask...](#)