Workshop on FSS Space Plan

AP30B Submission

Presented by
ITU-R/SSD Space Notification and Plans Division

International Telecommunication Union

You have learned

- Concept of Space Plans
- Regulatory procedures in AP30B

- Validation and correction of an submission

SpaceCap

SpaceVal

You will exercise to

- Validate an AP30B submission
- Correct errors/omissions in an AP30B submission

SpaceCap

SpaceVal

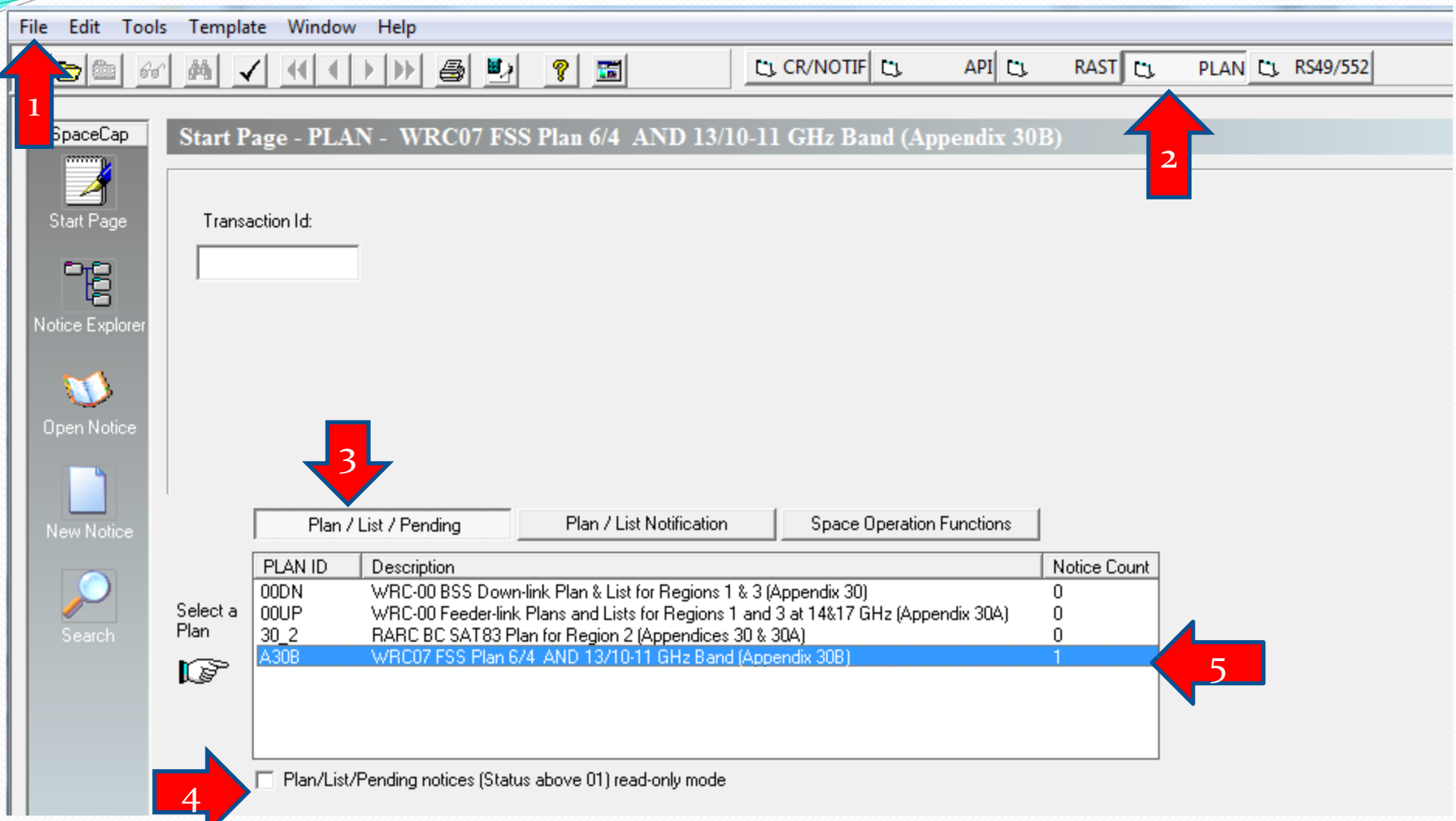
- Find errors/omissions in diagrams

Exercise

SpaceCap

- View and Modify AP30B notice in SpaceCap
  1. File -> Open Database

     ..\6_A30B exercise\itu-sat-submission.mdb
  2. Plan-> Plan/List/Pending
  3. uncheck the “read only mode” to enable the modification
  4. Double click the line of “AP30B….”
  5. Show
  6. Go through the notice….


File
Edit
Tools
Template
Window
Help
CR/NOTIF
API
RAST
PLAN
RS49/552
1
2
SpaceCap
Start Page
Notice Explorer
Open Notice
New Notice
Search
Start Page - PLAN - WRC07 FSS Plan 6/4 AND 13/10-11 GHz Band (Appendix 30B)
Transaction Id:
3
Plan / List / Pending
Plan / List Notification
Space Operation Functions
Select a Plan
PLAN ID
Description
Notice Count
00DN
WRC-00 BSS Down-link Plan & List for Regions 1 & 3 (Appendix 30)
0
00UP
WRC-00 Feeder-link Plans and Lists for Regions 1 and 3 at 14&17 GHz (Appendix 30A)
0
30_2
RARC BC SAT83 Plan for Region 2 (Appendices 30 & 30A)
0
A30B
WRC07 FSS Plan 6/4 AND 13/10-11 GHz Band (Appendix 30B)
1
5
4
Plan/List/Pending notices (Status above 01) read-only mode

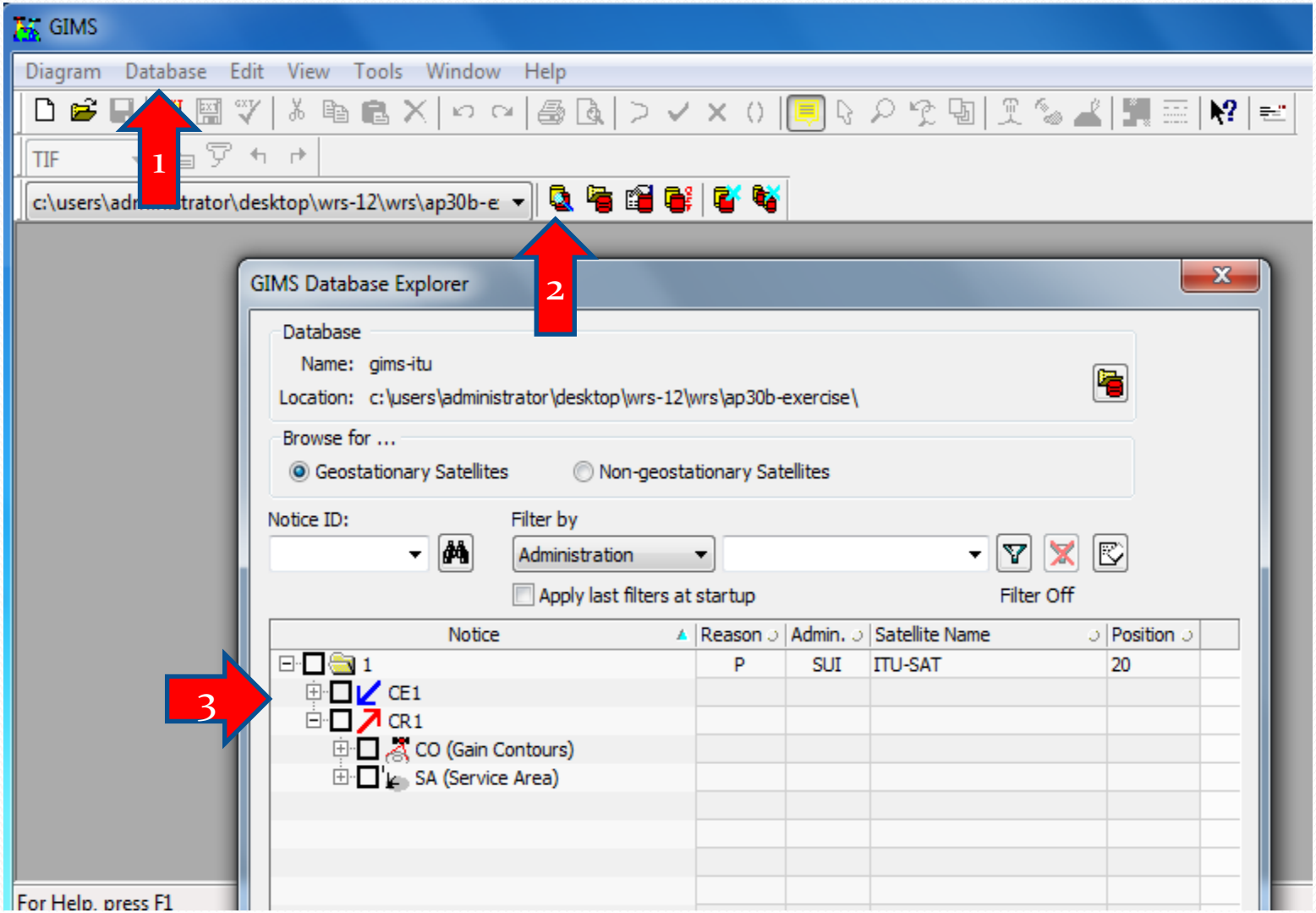
SpaceCap

View Diagrams in GIMS

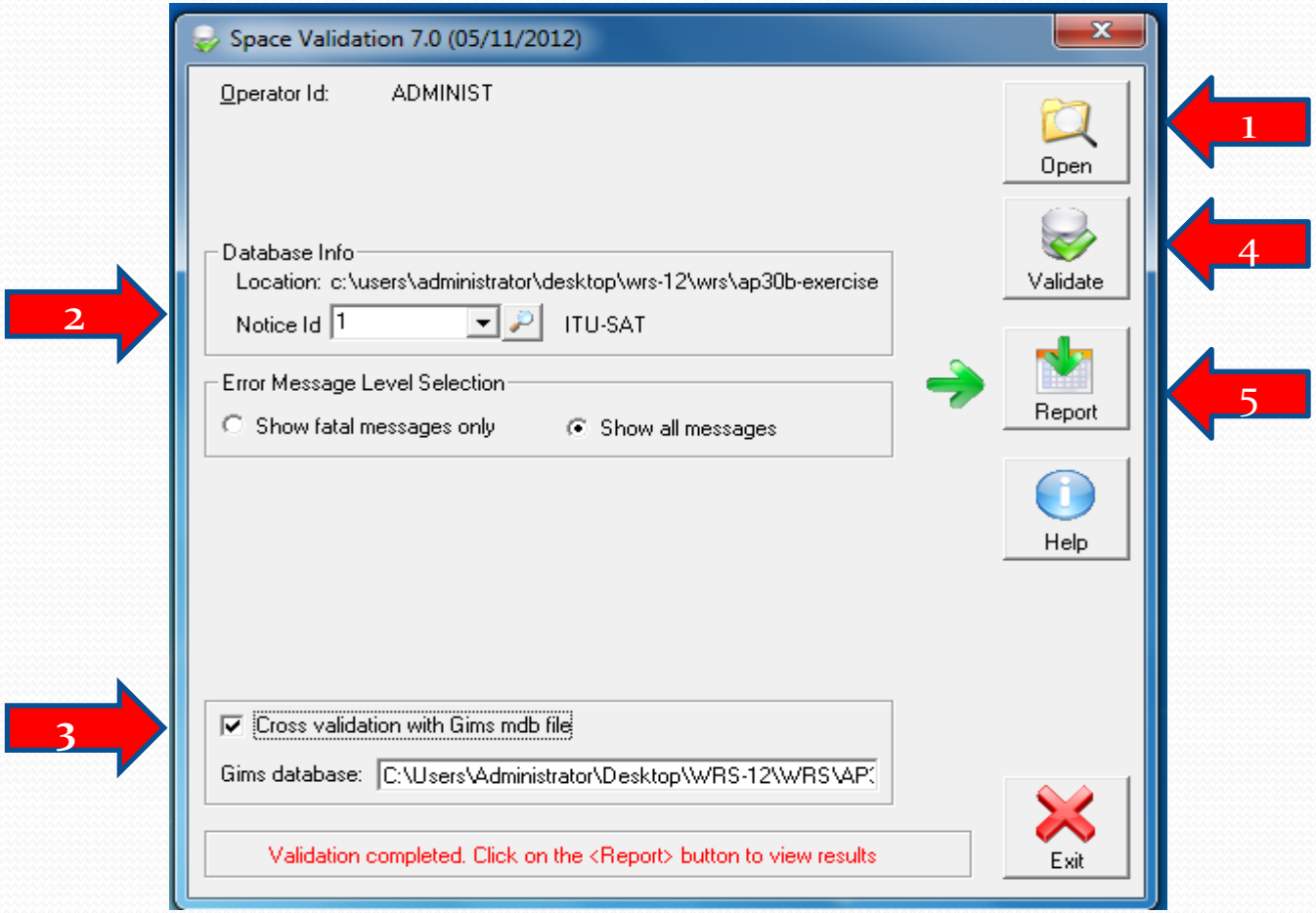
1. Database -> Open ->

   ..\6_A30B exercise\gims-itu.mdb

2.  or 
3. Select the beams/Diagrams you want to see
4. Open


GIMS
Diagram Database Edit View Tools Window Help
TIF
1
c:\users\adr trator\desktop\wrs-12\wrs\ap30b-e
2
GIMS Database Explorer
Database
Name: gims-itu
Location: c:\users\administrator\desktop\wrs-12\wrs\ap30b-exercise\
Browse for ...
Geostationary Satellites
Non-geostationary Satellites
Notice ID:
Filter by
Administration
Apply last filters at startup
Filter Off
3
Notice
Reason
Admin.
Satellite Name
Position
1
P
SUI
ITU-SAT
20
CE1
CR1
CO (Gain Contours)
SA (Service Area)
For Help, press F1

Validate a submission



Exercise

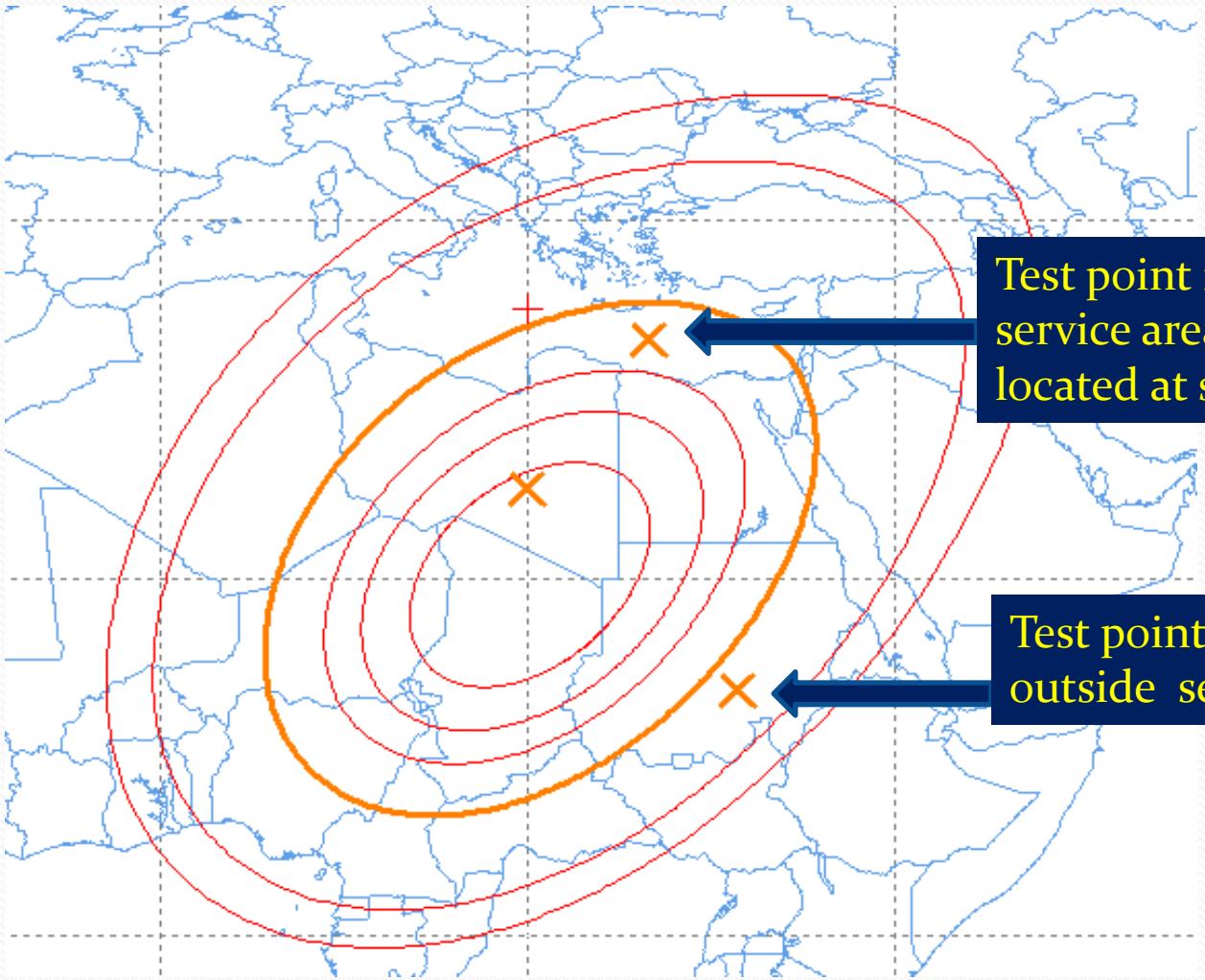
Find and correct the errors in the submission of satellite network ITU-SAT

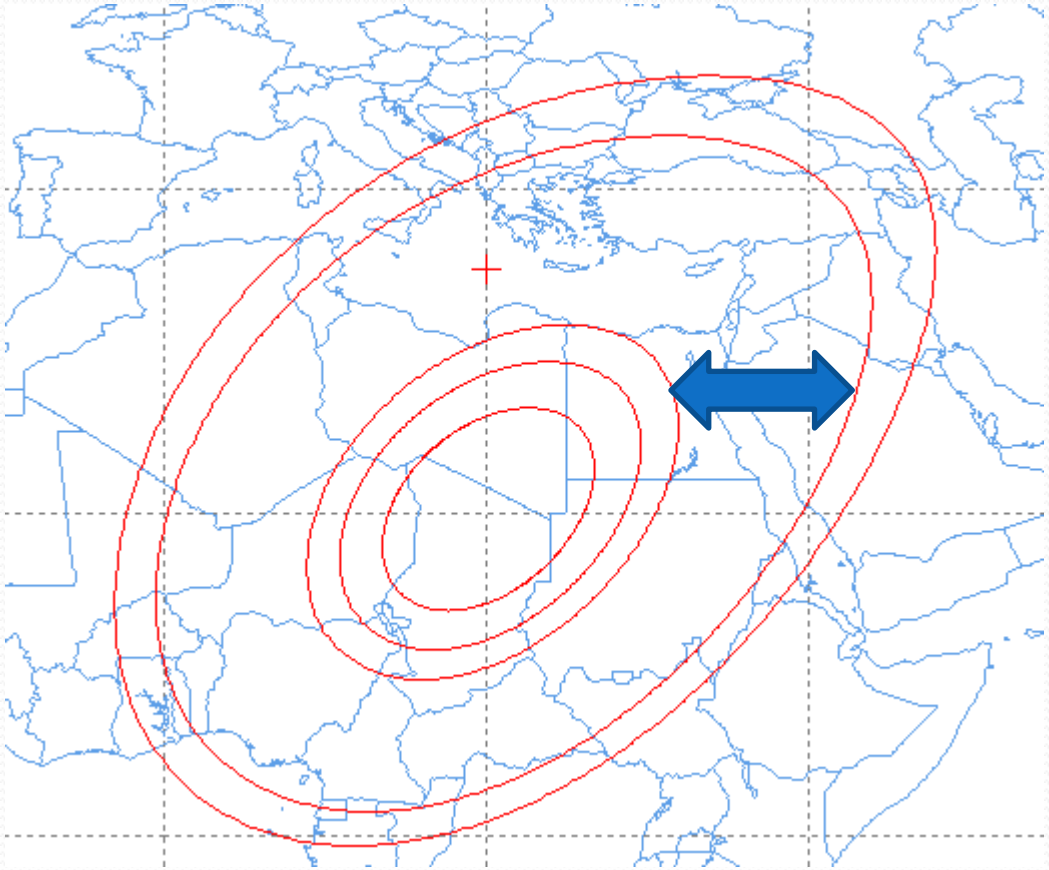
Common errors (1)

- Wrong value of ES antenna half-power beam width
- Test Points located at sea or outside its service area
- Omission in diagrams
- Difference between GIMS data and AP4 Data

  (e.g. boresight, satellite name, beam name…)
- Inconsistences and wrong data format

(cased by capturing data without using SpaceCap)


Test point inside service area but located at sea
Test point located outside service area



-10dB contour is missing in satellite antenna gain diagram

- Contours required : -2dB, -4dB, -6dB, -10dB, -20dB…..
  (10dB interval after -10dB contour)
- ZERO dB contour is required for steerable beams.

Warning messages in SpaceVal results

- Submission is receivable with warning message
- Investigation is necessary

  e.g. Warning of power density :

  PFD value exceeds the limits ?

Any Question ?

International Telecommunication Union