CAPTURE AND SUBMISSION OF APPENDIX 4 DATA FOR A SATELLITE EARTH STATION

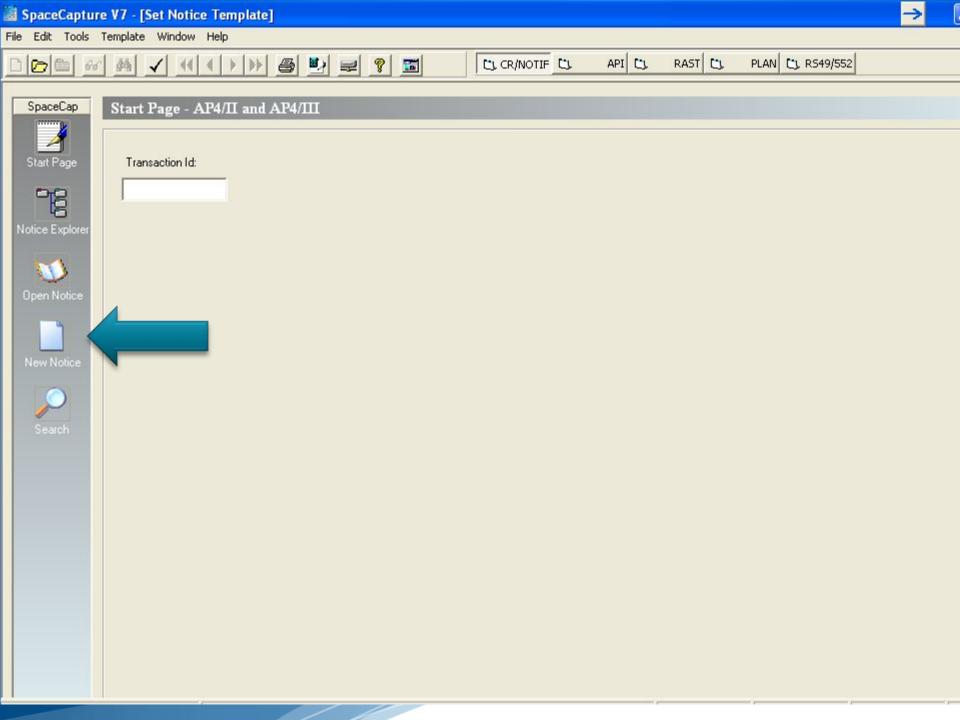
ITU – RRS-14 Asia Hanoi, Vietnam 26-30 May 2014

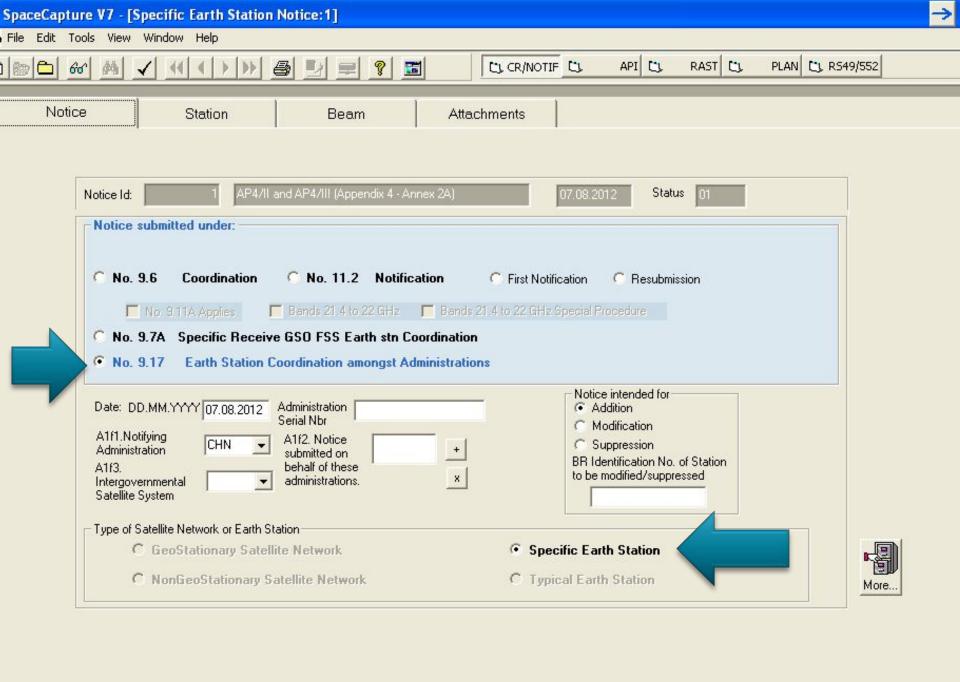
Chuen Chern Loo BR/SSD/SPR

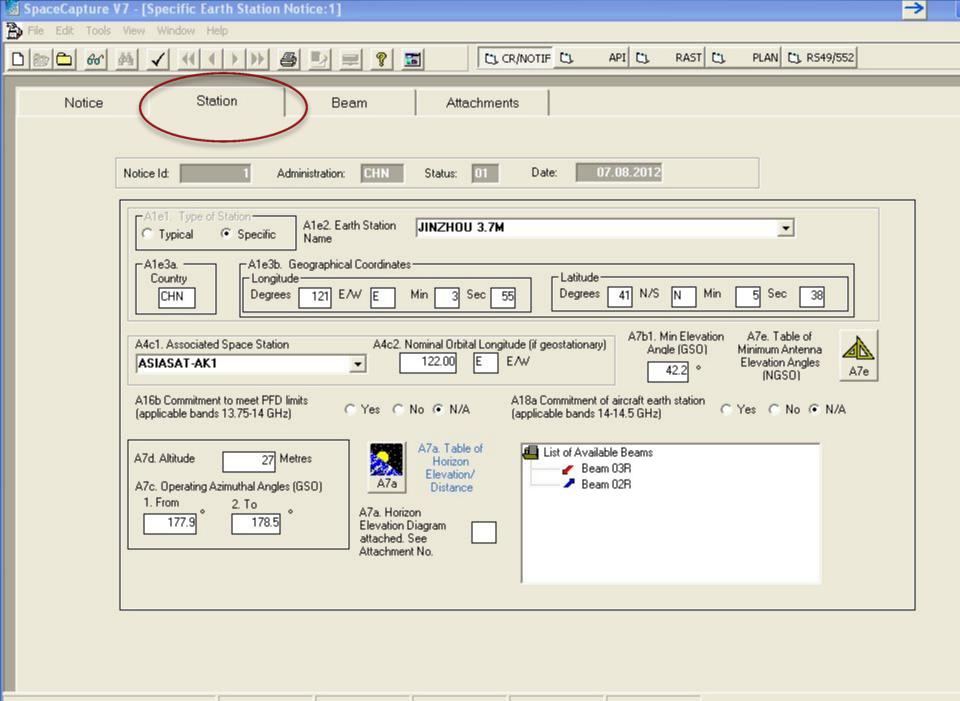


Coordination of earth stations

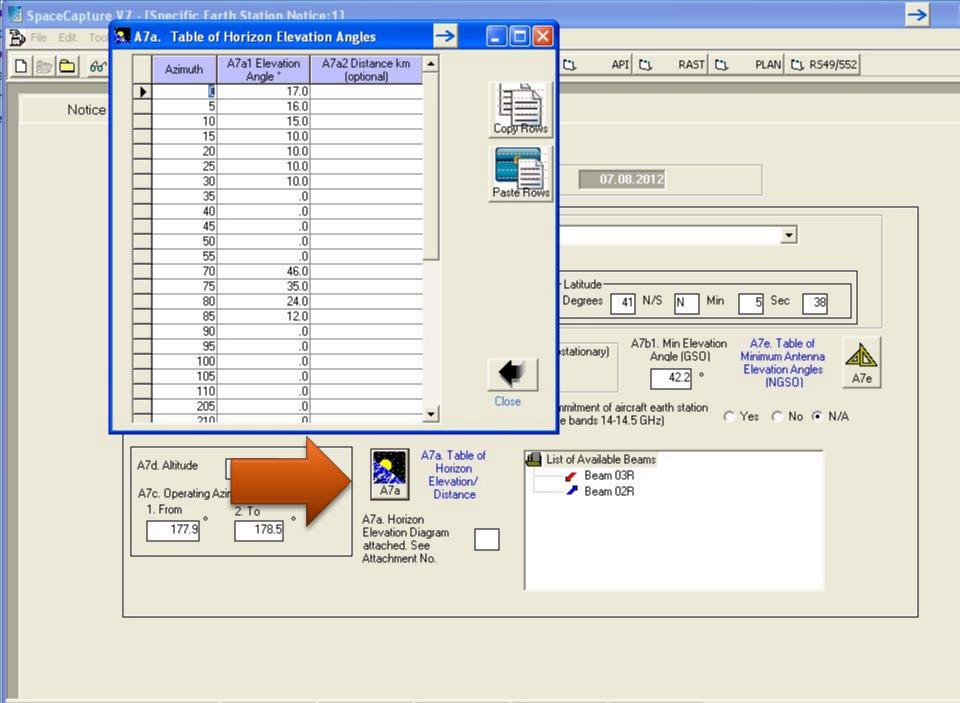
- 9.29 Requests for coordination under 9.15 to 9.19 shall be sent by the requesting administration to the identified administrations, together with the appropriate information listed in Appendix 4 to the Radio Regulations
- SpaceCap software can be used for the capture of information required for coordination requests with the affected Administrations, and the resulting file can be sent to these affected Administrations
- When coordination is completed, the same file can be converted to a notification notice to be submitted to the Bureau

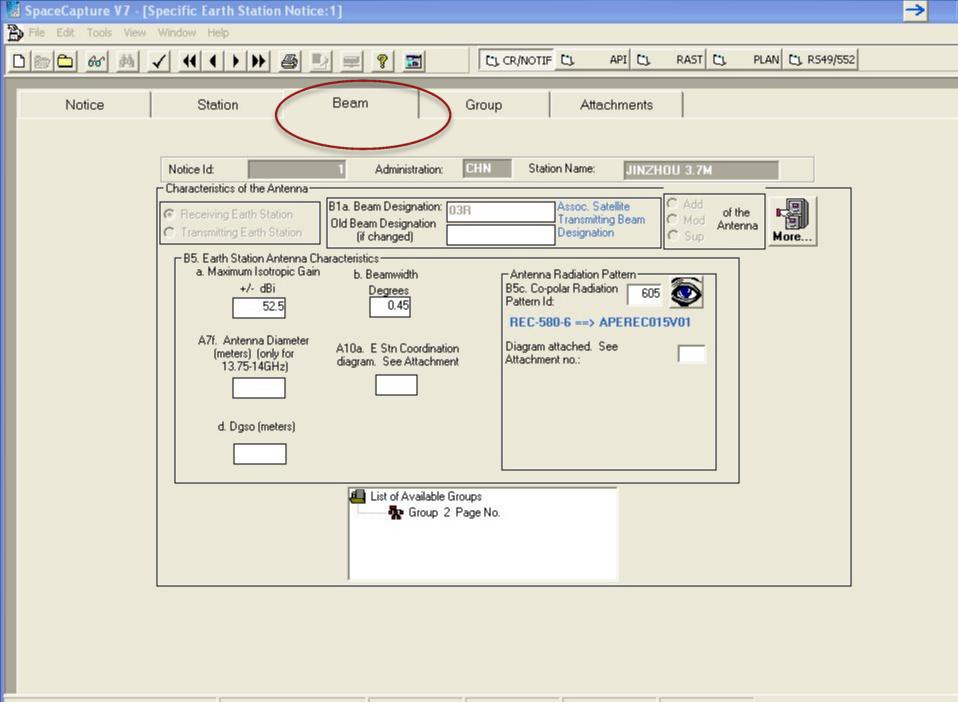




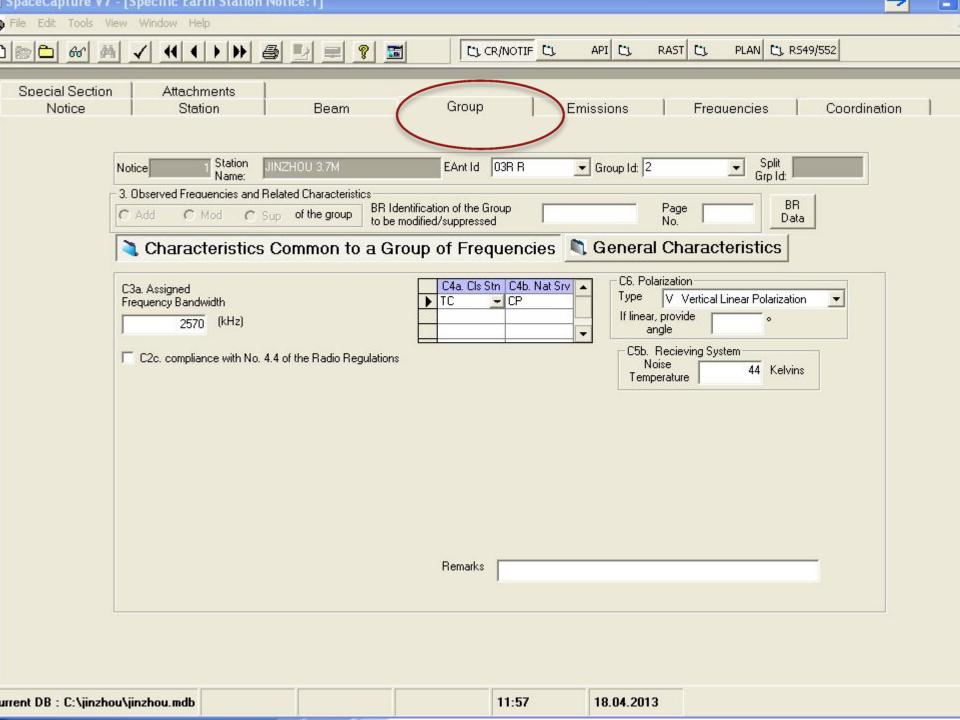


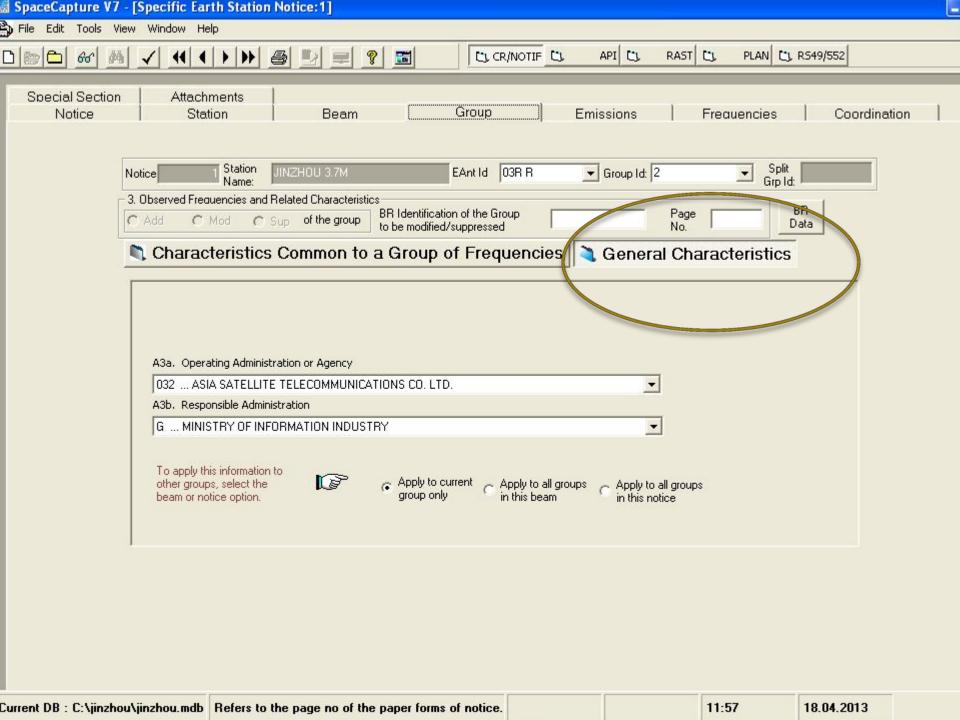
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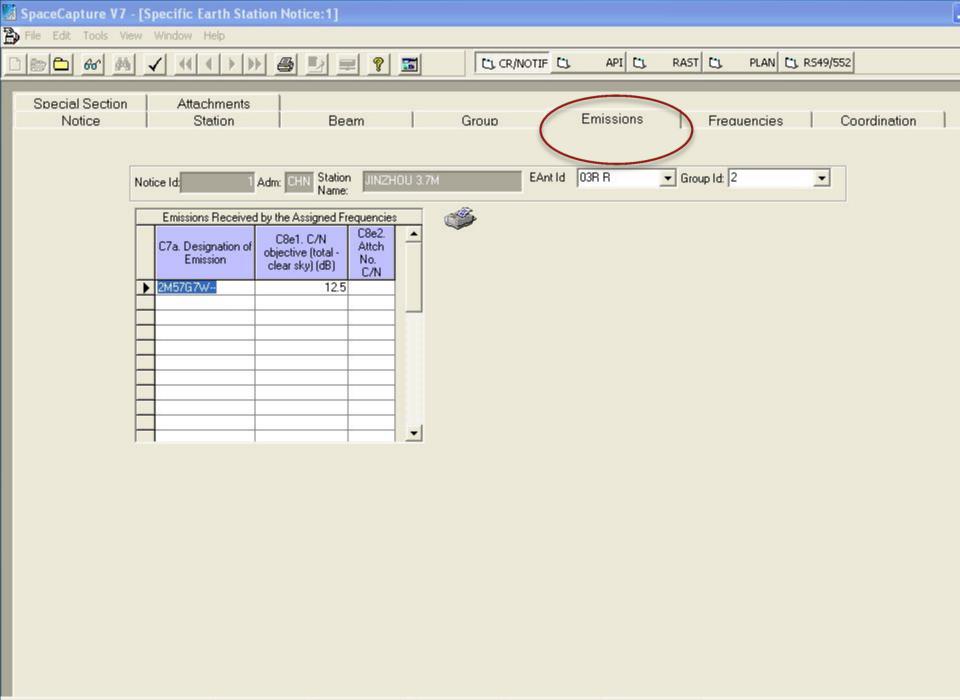


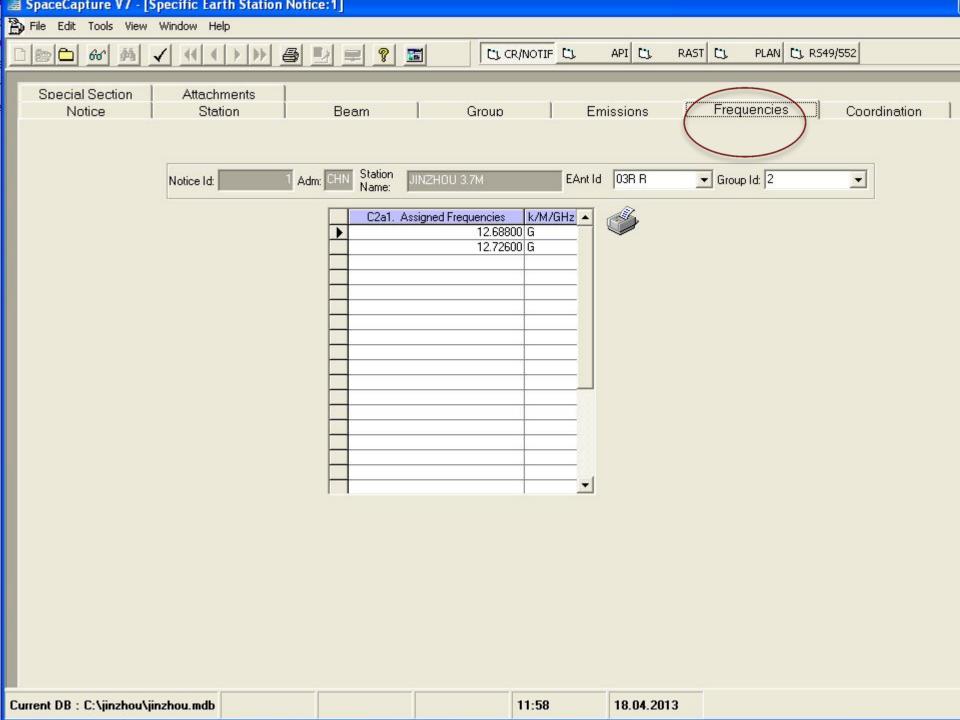


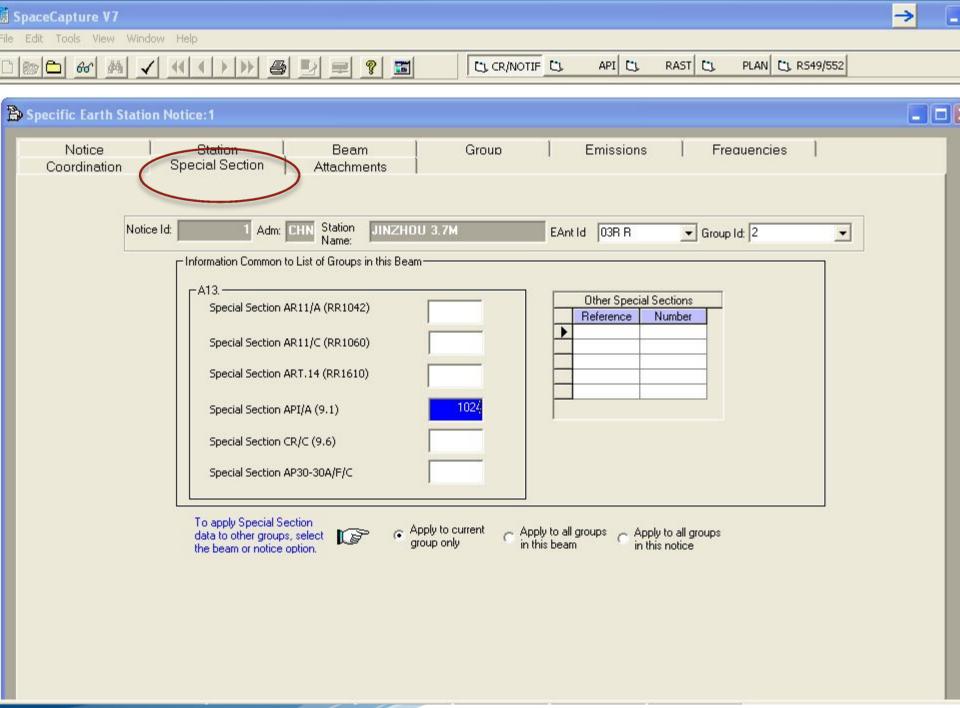
Current DB: C:\jinzhou\jinzhou.mdb No message available...

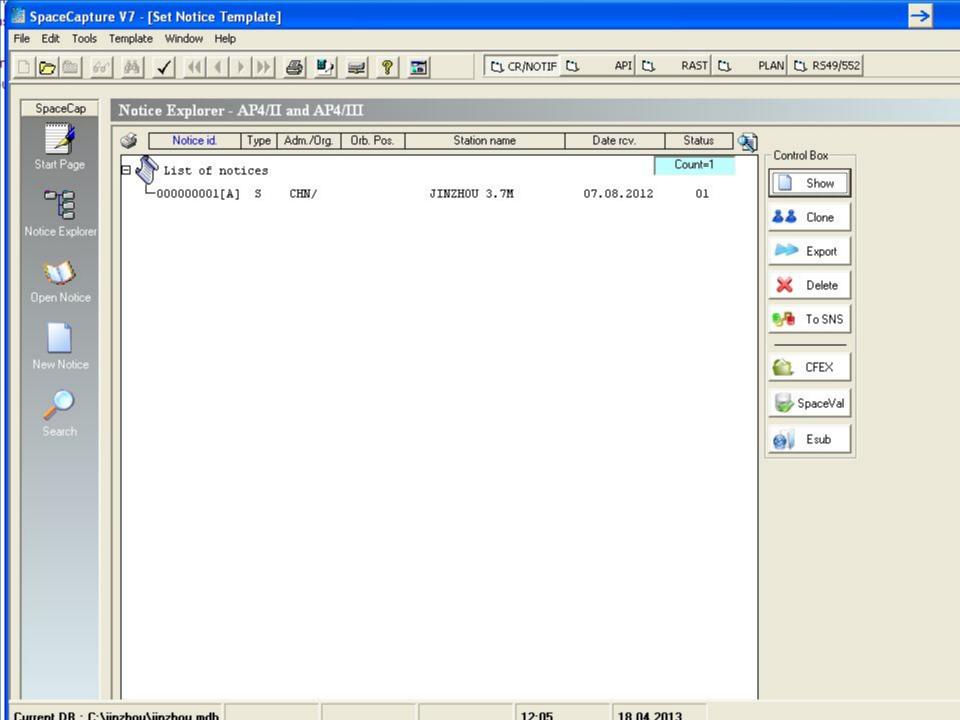












Generate coordination area diagrams with AP7 software

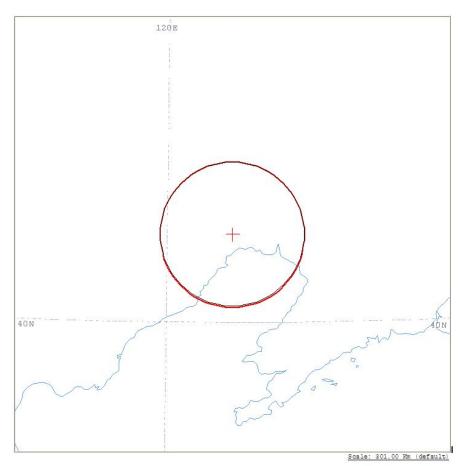
VERSION:2.0.0.0Appendix 7/Flc=2.0.0.0/Frn=2.0.0.0/Clc=2.0.0.0/Frp=1.2.0.0/SNS=2.0.0.0/APFF=2.0.0.0/Ref=2.0.0.0

Diagram 1: 2.1_TABLE7. TRANSMITTING GSO ES in FIXED-SATELLITE SERVICE W.R.T. RECEIVING TERRESTRIAL STATIONS. TS in FS or MS

Notice 1D: 1 Administration/Geographical area: CHN/CHN Satellite orbital position: 122.00 Frequency band: 14436.70-14477.30 MHz

Main Model

Earth station name: JINZHOU 3.7M Earth station position: 121E035541N0538 Satellite name: ASIASAT-AK1

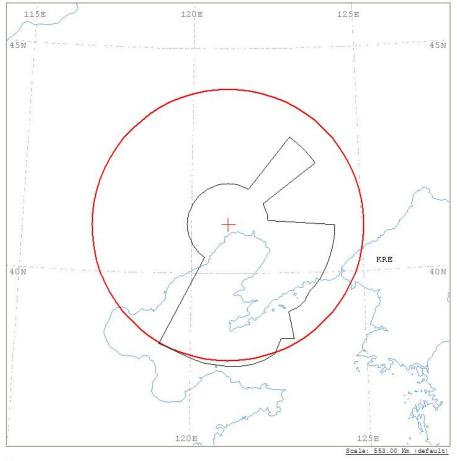


VERSIGN:2.0.0.0Appendix 7/Flb-2.0.0.0/Frm-2.0.0.0/Clc-2.0.0.0/Frp-1.2.0.0/SNS-2.0.0.0/AP7F-2.0.0.0/Ref-2.0.0.0

Diagram 2: 2.1 TABLES. RECEIVING GSO ES in FIXED-SATELLITE SERVICE W.R.T. TRANSMITTING TERRESTRIAL

STATIONS. IS in FS or MS

Notice ID: 1 Administration/Geographical area: CHN/CHN Satellite orbital position: 122.00 Frequency band: 12686.70-12727.30 MHz Earth station name: JINZHOU 3.7M Earth station position: 121E035541N0538 Satellite name: ASIASAT-AK1





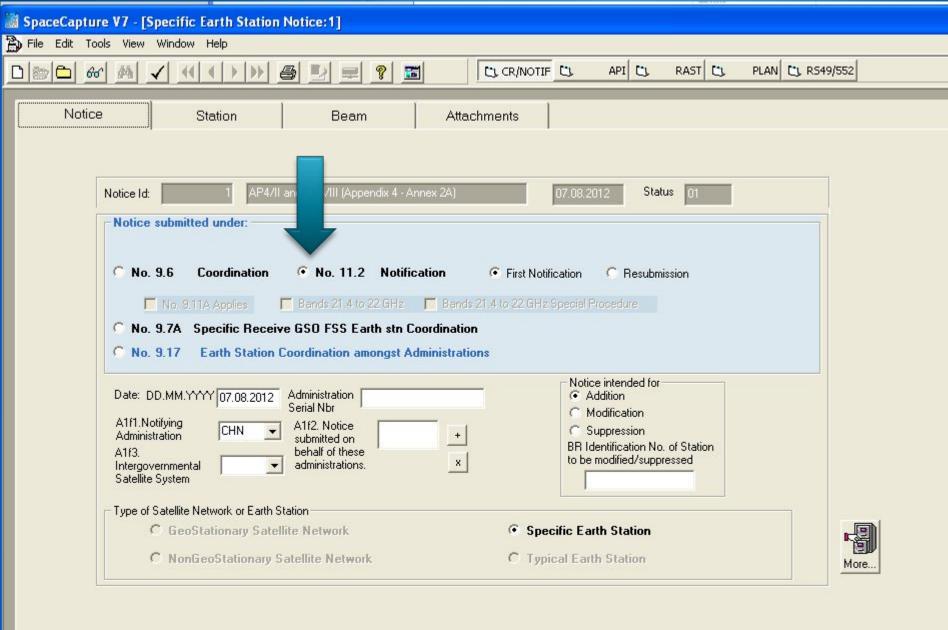
Notification of an Earth station

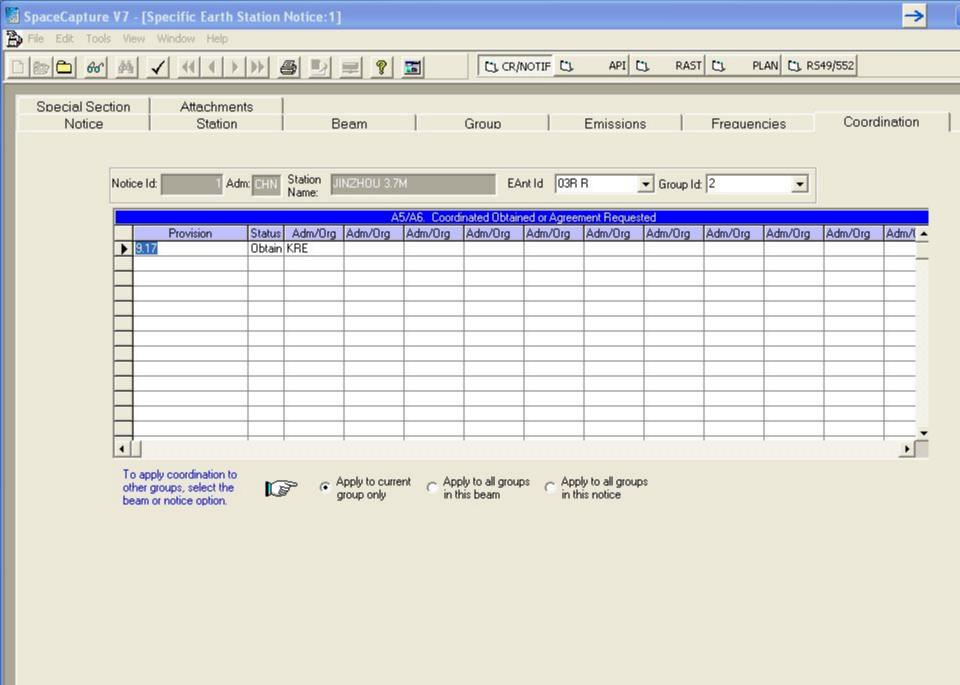
- Any frequency assignment to a transmitting station and to its associated receiving stations shall be notified to the Bureau if (No.11.2)
 - Assignment is capable of causing harmful interference; or
 - Assignment is used for international radiocommunication; or
 - Assignment is subject to a world or regional frequency allotment or assignment plan which does not have its own notification procedure; or
 - if that assignment is subject to the dcoordination procedure of Article 9; or
 - It is desired to obtain international recognition; or
 - Non conforming assignment seeking to be recorded for information purposes only
- Similar requirements for receiving earth station (No.11.9)



Before submitting the notification

- Check the following:
 - Associated space station must already be notified
 - Provide the correct name used in BR databases
 - Check also the beam names/ if the frequency bands are covered by the bands used by the space station
- Use Spacecap to convert the notice from No.9.17 to No.11.2
- Use Spacecap to update the status of coordination of the earth station
- Run Spaceval to ensure that there are no fatal errors





Common Errors

- Space station name/beam name/ frequency band not covered
- Missing horizon elevation angle
- Missing minimum angle of elevation
- Missing coordination area diagram
- Missing antenna diameters when required
- Missing antenna radiation patterns
- Missing coordination agreements

Publication of the Earth Station Notice

Part I-S

When notice is found to be complete, it will be published in Part I-S, which will constitute the acknowledgement to the notifying administration of receipt of its notice (No.11.28).

Part II-S

Assignments, after detailed technical and regulatory examination, that are found to be favourable will be published in a Part II-S and recorded in the MIFR.

Part III-S

Assignments, after detailed technical and regulatory examination, that are found to be unfavourable will be published in a Part III-S.

Reasons for unfavorable findings (Part III-S): examples of paragraphs

Notes for return of notices for earth station		
Provision	Examples of paragraphs	Resubmission Within 6 months
A N - X/9.17 X	With respect to the frequency assignment groups Nos. () of your earth station (), it is noted that the <u>coordination procedure under No. 9.17</u> has not been shown as completed with the Administrations of () since the <u>coordination area of your earth station includes the territories of those Administrations</u> (see coordination contours attached). Thus, an unfavorable finding with respect to No. 11.32 has been reached and the notice in question is being returned to you in conformity with No. 11.37. Should the notice <u>be resubmitted with the indication that coordination has been successfully completed with the Administration</u> (s) mentioned above, a favorable finding might result. However, these being frequency assignments for reception, your Administration may be prepared to accept the interference resulting from existing and future terrestrial stations of the countries concerned. In this event, should your Administration resubmit the notice concerned and insist upon its reconsideration, the assignment will be recorded in the Master Register; symbol "H" will be inserted in Column 13B2 as well as AP5 PARA 6E(III) in the column reserved for coordination information.	Yes
A N - X/9.7 X No SS subject to <u>coord</u> .)	With regard to the frequency assignment groups Nos. () of your earth station (), it is noted that the corresponding frequency assignments of the associated space station () have not yet been communicated to the Radiocommunication Bureau for recording. Thus, these frequency assignments have been given an unfavourable finding with respect to No. 11.32 (see paragraph 2.1.2.1 of the Rules of Procedure relating to No. 11.32) and the notice in question is being returned to you in conformity with No. 11.37. Once the corresponding assignments of the associated space station have been notified and recorded in the Master Register, it will be possible to examine again your earth station notice.	Yes
A N - X/9.7 X Outside SA	With respect to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>station is outside the service area of the transmitting/receiving beam () of the associated space station (). Consequently, your earth station frequency assignments have been given an unfavorable finding with respect to No. 11.32 (see paragraph 2.1.3 of the Rules of Procedure relating to No. 11.32) and the notice in question is being returned to you in conformity with No. 11.37.</u>	Yes
N X/ROP RCV4.4	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the associated space station () does not have any valid publication in the Radiocommunication Bureau. As stated in paragraph 2.1.2.1 of Rules of Procedure relating to No. 11.32, starting from the principle that the leading element of a space network is the space station and that it would be misleading to record in the Master Register earth stations for which a space station (network) is not recorded, the Radio Regulation Board decided that an earth station cannot be recorded in the Master Register before its associated space station. In view of the above, according to Rules of Procedure, paragraph 4.4 of "Rules concerning the Receivability of forms of notice generally applicable to all notified assignments submitted to the Radiocommunication Bureau in application of the Radio Regulatory Procedures relating to space services" the subject notice is not receivable.	Yes

Reasons for unfavorable findings (Part III-S): examples of paragraphs

PFD limits No. 21.16	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>value of the power flux-density</u> at the earth's surface produced by emissions from the space station () <u>exceeds the limits specified in No. 21.16</u> . Consequently, an <u>unfavorable</u> finding with respect to No. 11.31 has been reached, and the notice in question is being returned to you in conformity with No. 11.36.	No
Min. elev. angle No. 21.14	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the minimum elevation angle of your earth station () does not meet the limit specified in No. 21.14. Thus, the frequency assignments of this earth station have been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36.	No
eirp density limits No. 5.503	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>e.i.r.p.</u> density of emissions from earth stations is not within the limits specified in No. 5.503 . Thus, these frequency assignments have been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36 .	No
girp limits No. 21.8	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the <u>earth station e.i.r.p. towards the horizon</u> is not <u>within the limits specified in No. 21.8</u> . Thus, this frequency assignment of this earth station has been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36 .	No
Min. elev. angle No. 21.15	With respect to the frequency assignments groups Nos. () of your earth station (),, it is noted that the minimum elevation angle of the earth station does not meet the limit specified in No. 21.15 (for space research service). Thus, the frequency assignments of this earth station have been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36.	No
eirp No. 22.26	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the off-axis e.i.r.p from the earth station is not within the limits specified in No. 22.26. Thus, this assignment has been given an unfavorable finding with respect to No. 11.31 and the notice in question is being returned to you in conformity with No. 11.36.	No
No. 4.5	With regard to the frequency assignments groups Nos. () of your earth station (), it is noted that the frequency assignments overlap a band not allocated to the service concerned (see No. 4.5 and its related Rules of Procedure). Consequently, an unfavourable finding with respect to No. 11.31 has been reached and the notice in question is being returned to you in conformity with No. 11.36.	No

Submission to Bureau

- Create a zip file ADM_ESName.zip containing
 - ESName.mdb (change to .itu)
 - Coordination contour diagrams generated using AP7 software
 - Any other attachments or notes in Word or PDF format
- Send email with attachment ADM_ESName.zip to BRMAIL@ITU.INT
- Send confirmation telefax to BR at +41 22 7305785



Questions?

