

## Sat-Coord

For Visual Browsing of ITU Space Database Files, Intersystem Interference Calculation, IFIC Processing and Satellite Frequency Coordination Support

## Browse and Interrogate ITU Database Files

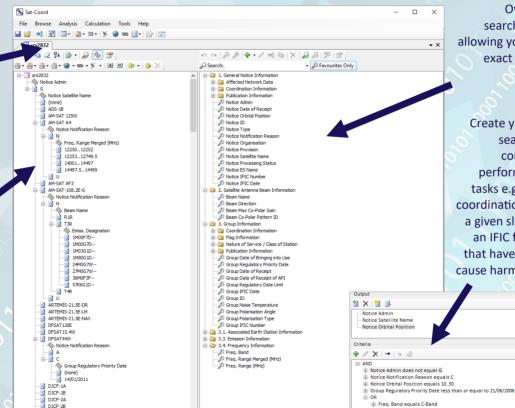
Interrogate and retrieve information from ITU SNS Database Files (including the SRS, IFIC, SPS and AP30B database files) as well as the Space Network List (including Part-B and Part-C) and Article 5 quickly and accurately

A completely freeform approach to searching, allowing you to find the information you need quickly and efficiently

Output can be sorted and output in either text or CSV format for ease of processing

· ■ DMC1

DMC3



Over five hundred searches are available allowing you to extract the exact information you require

Create your own custom searches specifying complex criteria to perform a vast array of tasks e.g. identifying the coordination issues around a given slot, or examining an IFIC for the networks that have the potential to cause harmful interference

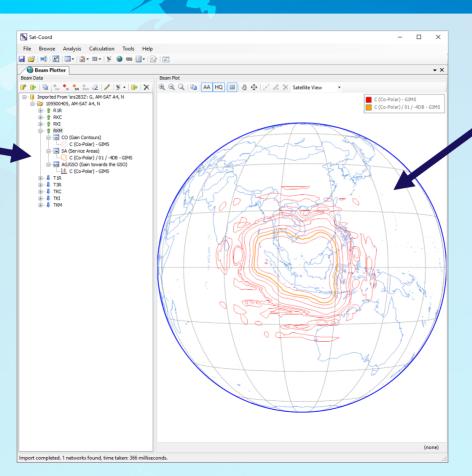
H- Freg. Band equals Ku-Band

## View and Edit Beam Data

Import and edit gain contour, service area and gain toward the GSO diagram data from ITU GIMS database files

Create and edit your own custom gain contour, service area and gain toward the GSO diagrams and save them into GIMS database format

Graphically compare gain contour diagrams by overlaying multiple diagrams



View Beam data using various projections, with zoom, pan and rotation functionality

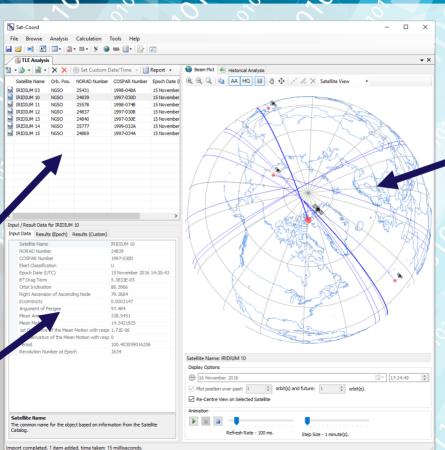
Generate contours
automatically using the
ITU Antenna Pattern
Library from a baseline
contour allowing you to
quickly and easily create
custom gain contour
diagrams

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Download and then browse information from Union of Concerned Scientists Satellite Database as well as Space-Track data (account required)

Import two-line-element (TLE) data from Space-Track or other sources

Analyse TLE data including retrieving location data at the associated epoch date, or a prediction at any other custom date and time



Visually display satellite ground track data and simulate satellite movement over time on the basis of TLE data

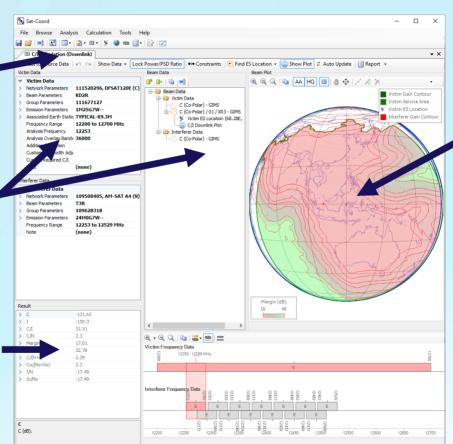
Plot position data over time, such as the longitude or altitude to understand when and how satellites are moving

#### **Coordination Analysis**

Perform downlink PFD, C/I, ΔT/T (Appendix 8) and Appendix 30B Annex 4 analysis

Import data from ITU SNS database files or create your own data including full control over beam gain contour, service area and test point data

C/I analysis including calculation of Margin, C/I,  $C_0/I_0$ , C/(N+I),  $C_0/(N_0+I_0)$ , I/N and  $I_0/N_0$ 



View graphical plots showing interference over the Earth's surface (or inside the relevant service area)

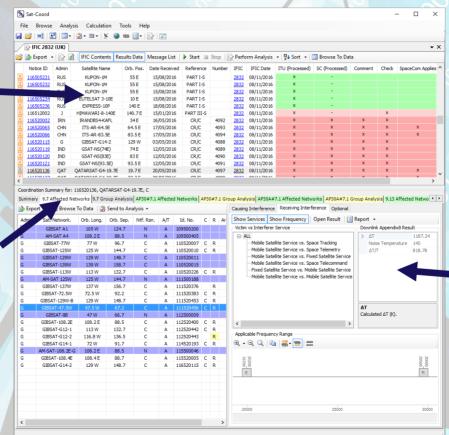
Modify input victim and interferer data as well as beam contours and earth station locations with real time re-calculation to understand and overcome interference issues

Add coordination constraints into a C/I Analysis to see their impact in real time

### IFIC Processing

Automate the processing of the bi-weekly IFIC databases to identify new filings which have the potential to cause interference to your filings

Quickly retrieve and view, the ITU findings as well as perform independent analysis of many of the ITU coordination triggers to validate the ITU's findings



Supports ITU Appendix 5, Appendix 8, Appendix 30/30A Annex 1 and Annex 4, PFD downlink and Appendix 30B Annex 4 coordination triggers

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Examine in depth the reason for identification on an individual networkby-network or group-bygroup basis and, where applicable, launch a detailed analysis of the worst case identified

#### **About Sat-Coord**

Sat-Coord is a modular software suite which supports the processing of satellite network information filed with the ITU, intersystem interference calculation (including  $\Delta T/T$  and C/I), IFIC processing and frequency coordination support.

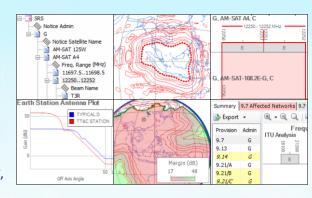
The software has undergone significant testing and development over a period of more than twelve years and has been used extensively to support the satellite coordination activities of RPC Telecom's clients including Intelsat, YahSat, VINASAT, THURAYA, TONGASAT, SingTel, HELLAS-SAT, SUPARCO, ETISALAT, SES Americom, ICO, Hughes Network Systems, O3B, JRANSA, DirecTV, the Cyprus Ministry of Communications, the Nigerian Communications Commission, INDOSAT, Es'hailSat, ANGKASA, Paradigm, BRIsat, KACST and the Government of Australia.

Sat-Coord can be downloaded and registered for a free, fully featured, 30 day trial.

#### **RPC Telecommunications Ltd.**

RPC Telecom specialises in satellite and radio communications engineering, software and training, with a particular emphasis on ITU satellite filing, coordination and radio-regulatory matters.

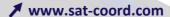
Since 1993 we have supported our clients to secure the orbit and spectrum resources needed to implement their satellite projects, attending more than 120 frequency coordination meetings and making in excess of 90 ITU satellite filings.





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