CHCNAV

Make your work more efficient

CHC Geomatics Office 2.0

July 2018

01
Introduction

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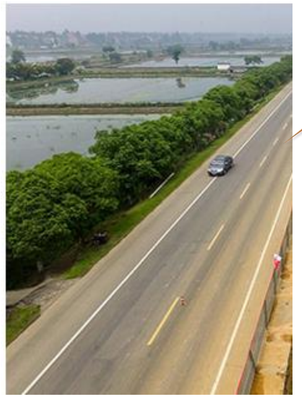
Overview

CGO2.0 Interaction

GNSS

LandStar 7

Road

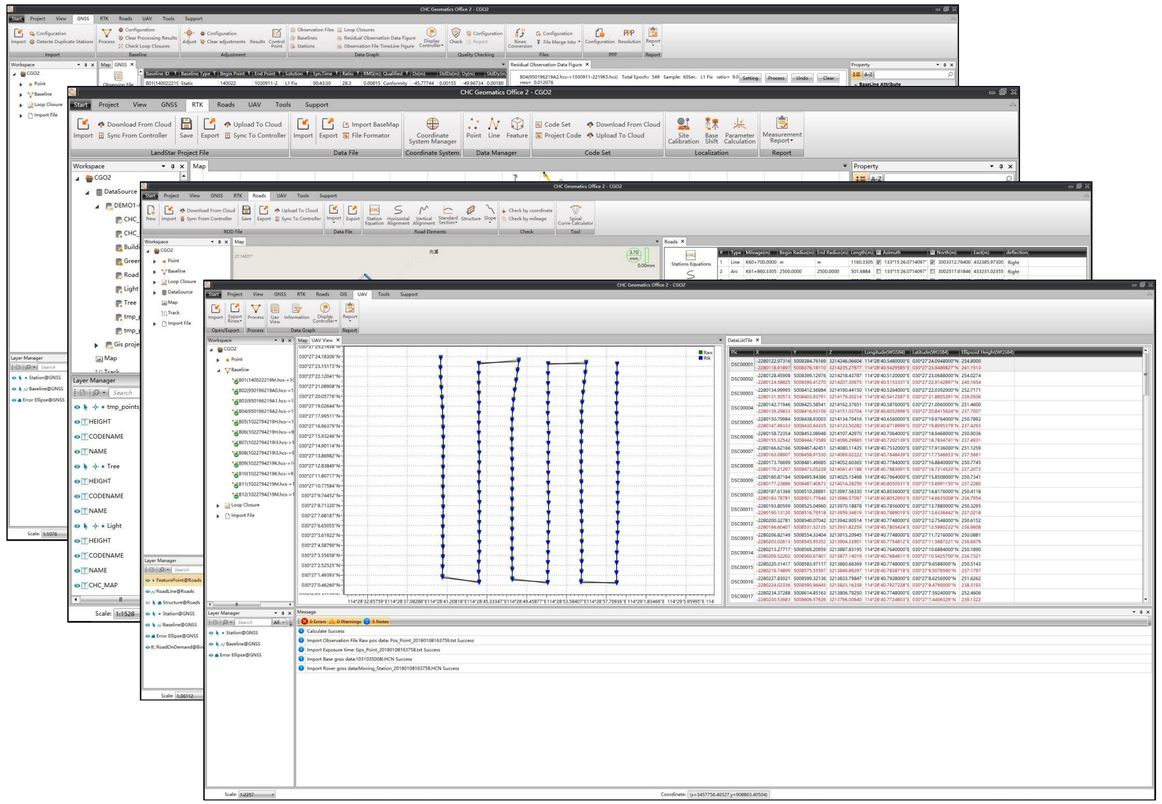


UAV

CHC Geomatics Office Software (CGO) 2.0 is a powerful office software, designed for engineers as an integrated platform to make a link between field and office workflow from multiple sensors and generating rich deliverables.

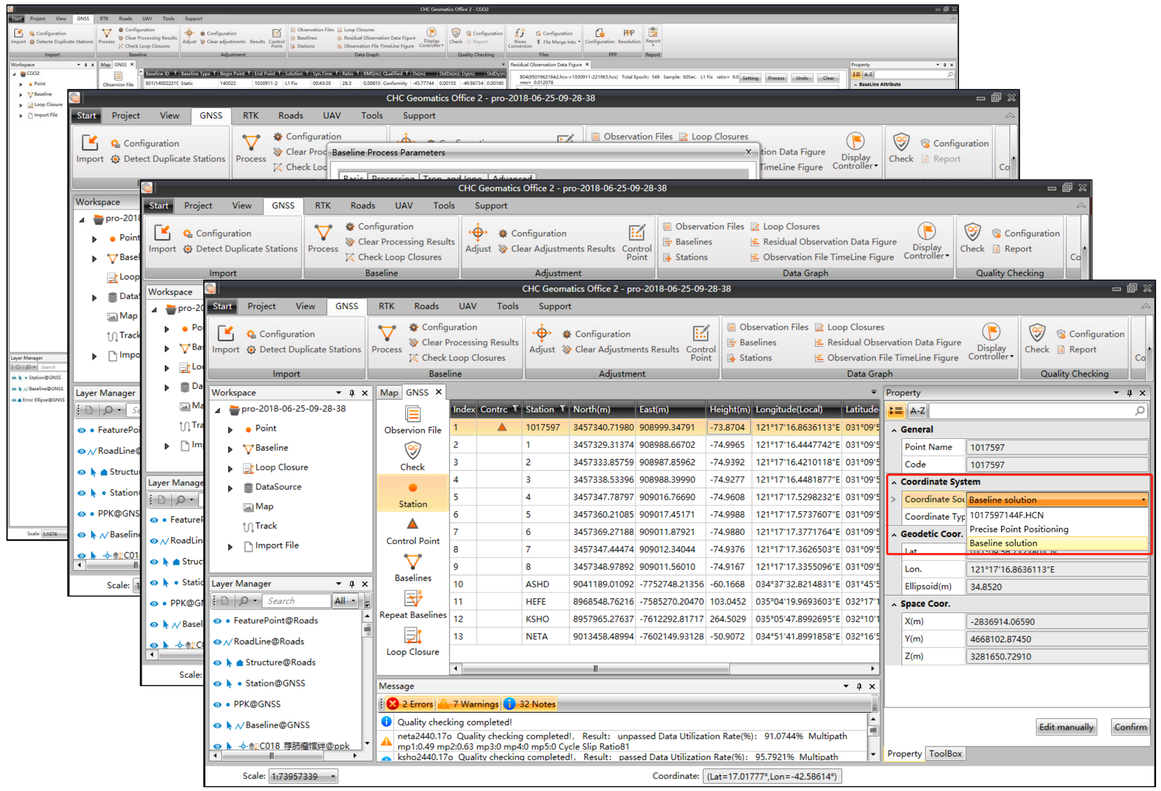
- GNSS post processing
- RTK field data editing
- Road data processing
- UAV data processing

More Processing Modules



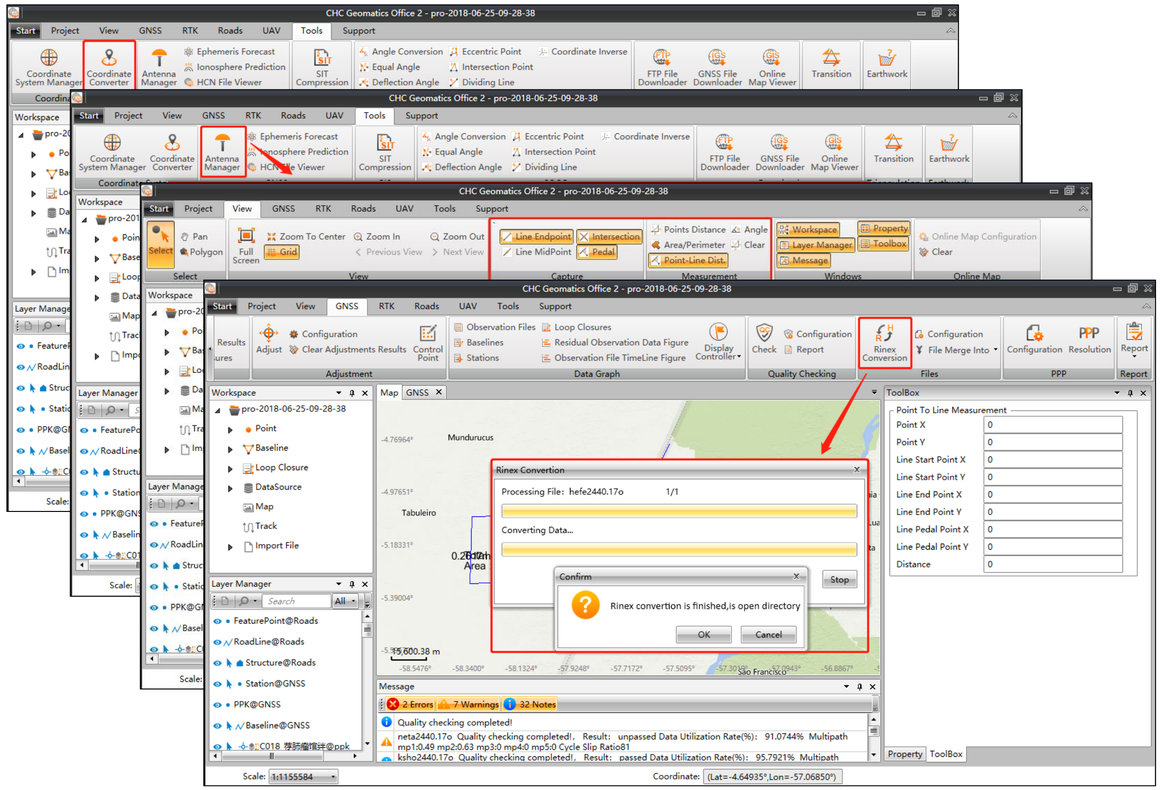
- Process data with Static, PPK, PPP algorithms in the GNSS module
- Edit surveyed features and use PPK post-processing results to correct field coordinates in the RTK module
- Check and input designed road elements for road stakeout in the Road module
- Get corrected UAV track coordinates by using both RTK and PPK algorithms in the UAV data processing module

Fast Post-processing Engine



- Deliver absolute accurate georeferenced positions with faster, reliable and accurate baseline processing and adjustment algorithms
- Have ability to process GPS, GLONASS, BeiDou and Galileo static or dynamic data
- Support intuitive post-processing workflow with quality check, selectable online map and CORS reference data downloading
- Support auto-saved results in all procedures which make station coordinates easier to compare and correct

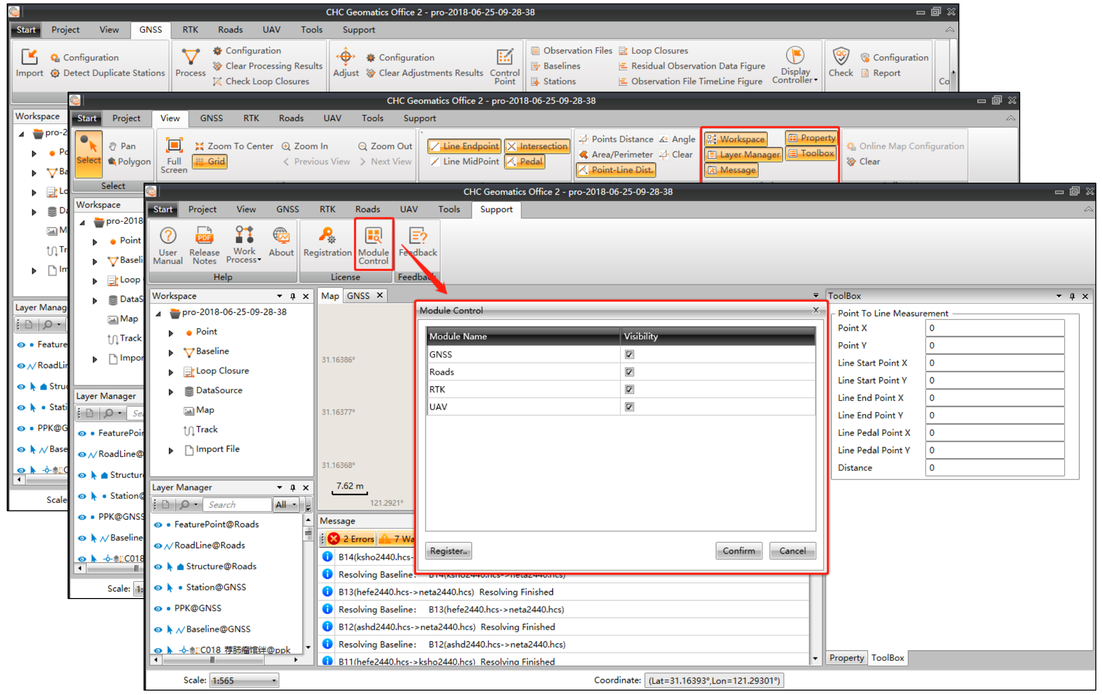
More Tools



CGO 2.0 offers access to different tools to make office work easier by using:

- Coordinates converter
- Antenna manager
- TIFF map compressor (SIT)
- Angle calculator
- Distance and volume calculation functions
- RINEX converter
- Observation split and merge tools

More Intuitive Interface



- Follow the ease-to-use interface to complete workflow
- View guidance in the user-friendly message box
- Have ability to customise layout and modules displaying which makes the software adapt to your working habits

02

Key Features

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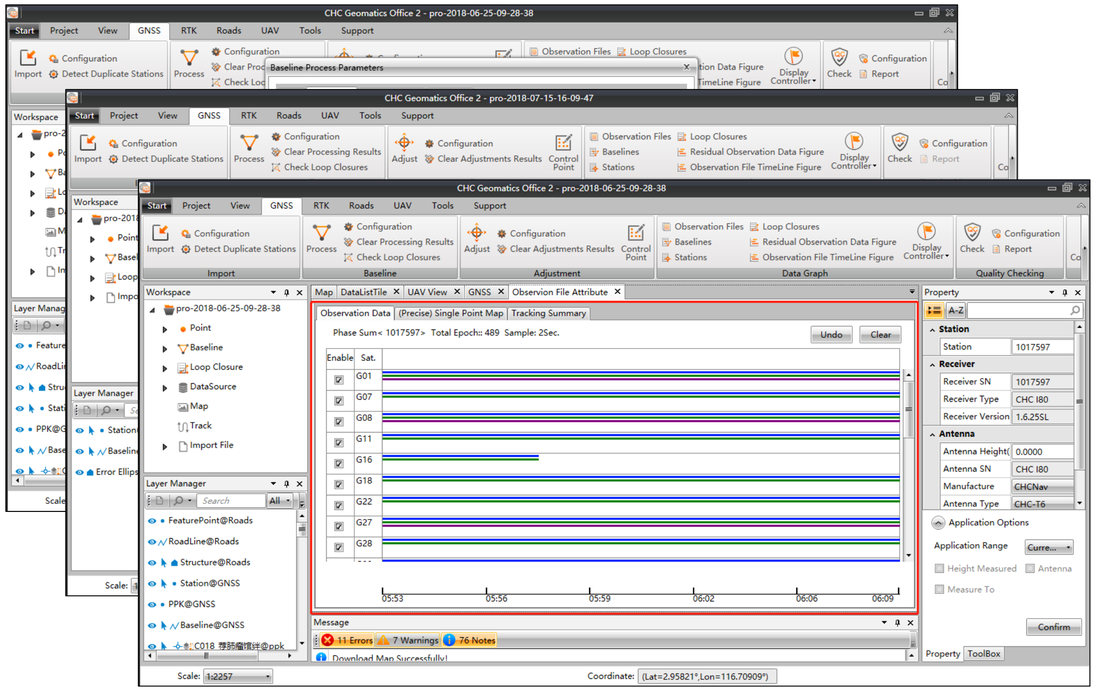
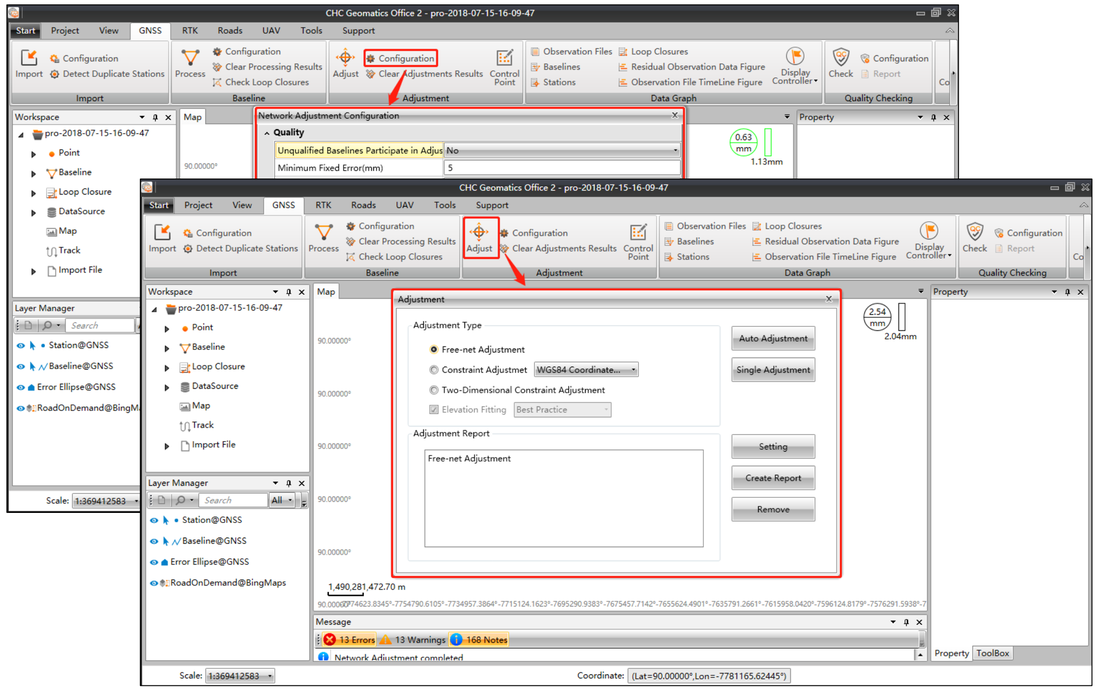
Effective Post-processing Function



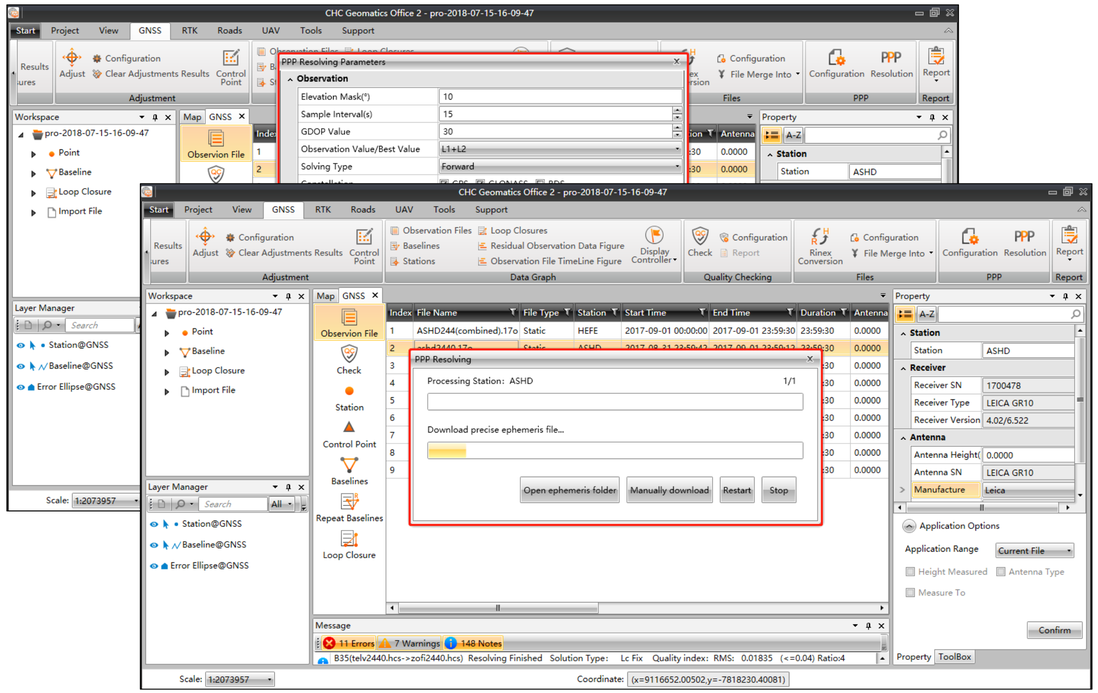
- Post-process static and dynamic data with PP, PPK, PPP, DGPS algorithms
- Provide stable and accurate baseline processing result (H: 5 mm + 1 ppm × D, V: 10 mm + 1 ppm × D) and support high-speed processing algorithms for the baseline (take only 20 s to process a baseline with 24 h duration)
- Check the observation file figure for obtaining accurate result

Powerful Adjustment Function



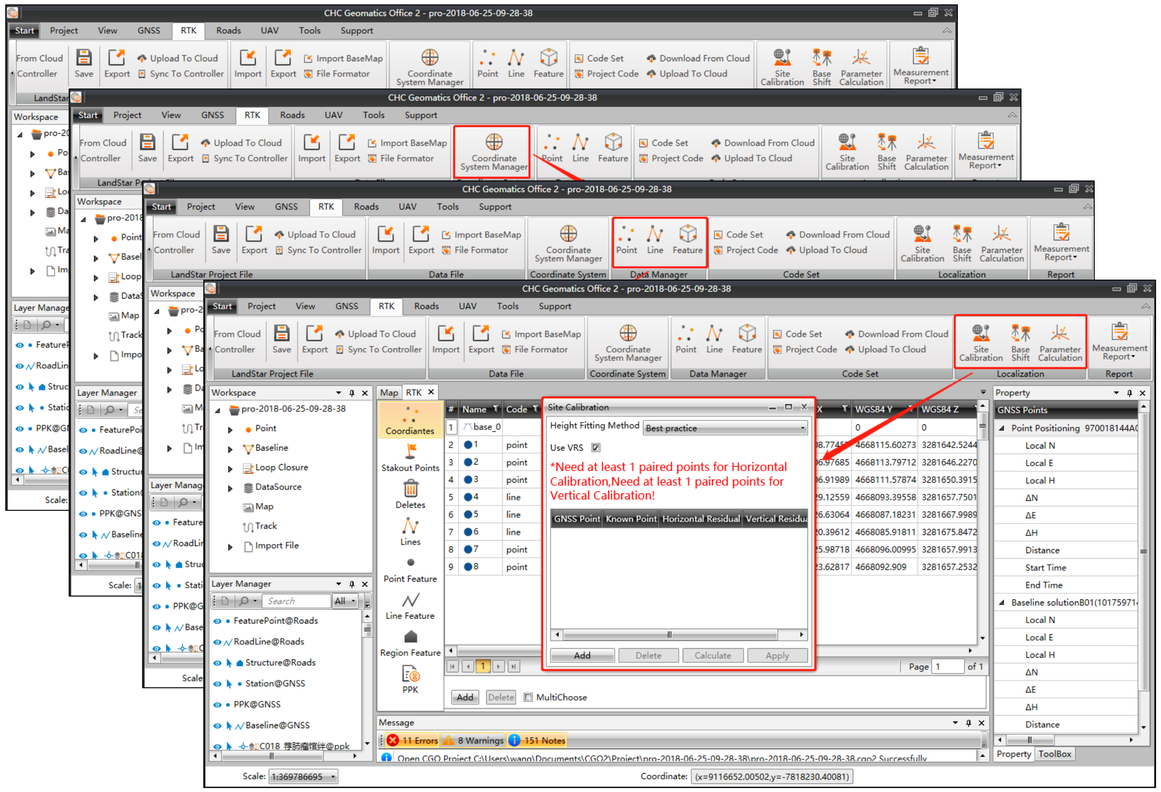
- Configure parameters of data quality, baseline weighting, adjustment methods and network reference factor
- Support one-click adjustment including 3D and constraint network adjustment

Accurate PPP Solution



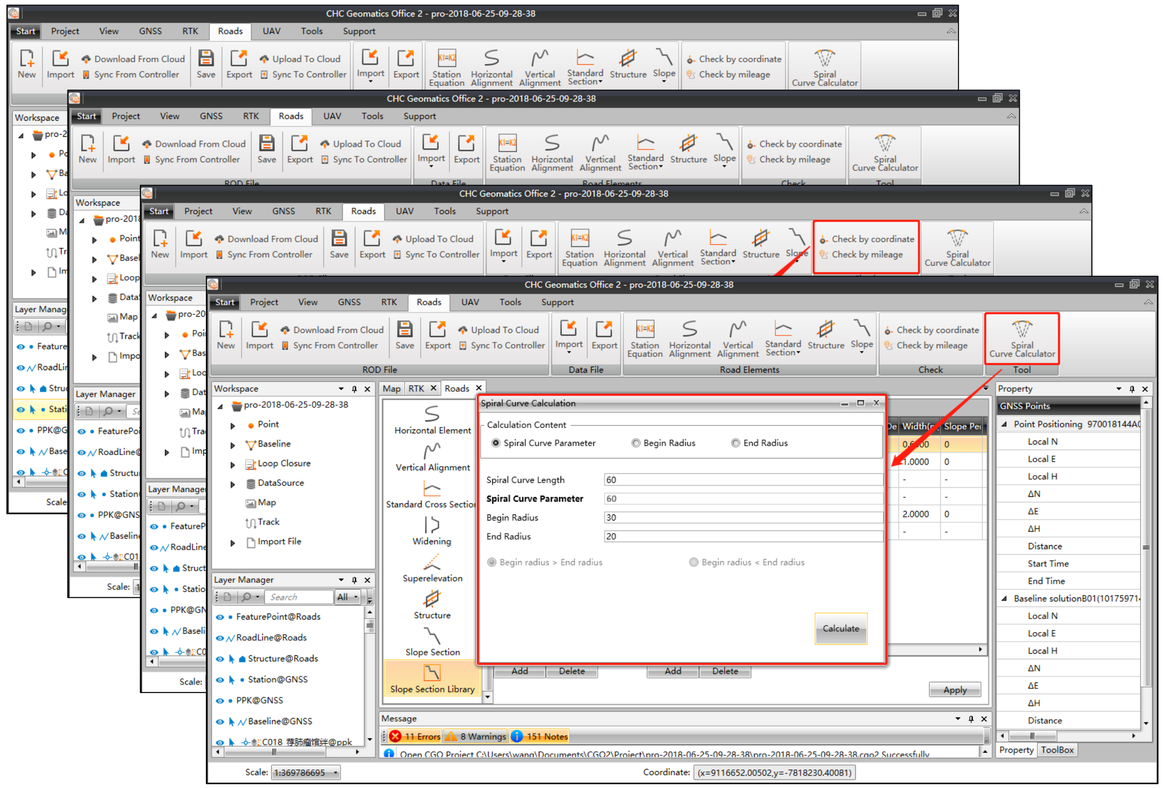
- Configure parameters of observation file, environment and ephemeris
- Provide accurate results after processing with auto-downloading of precise ephemeris

Seamless Field-to-office Work



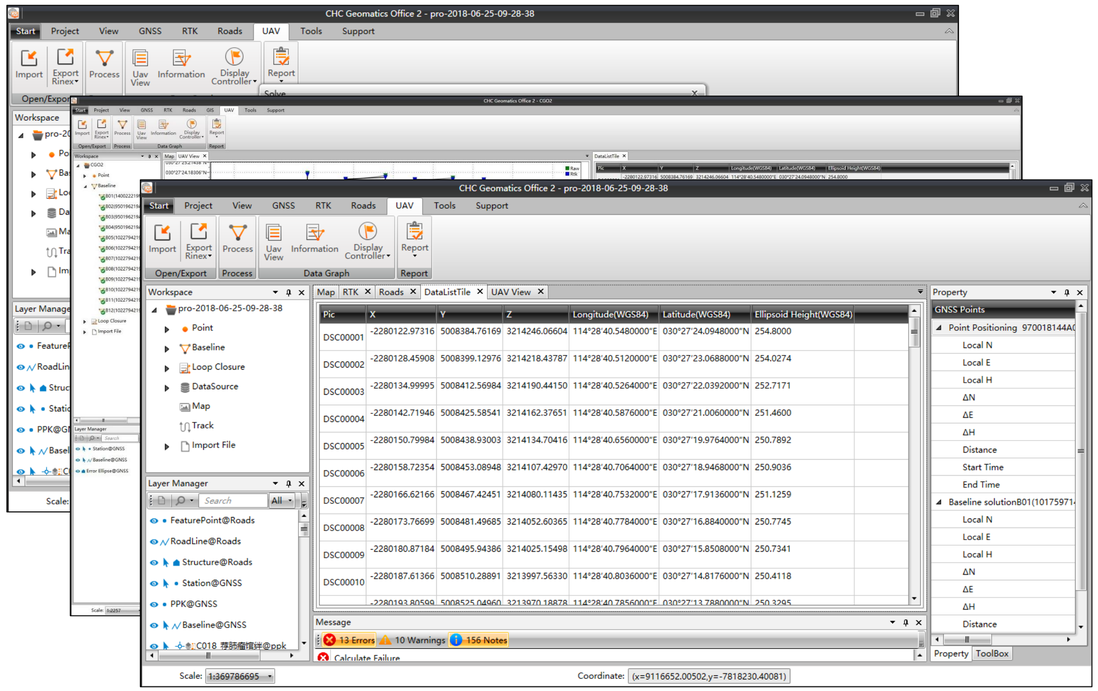
- Use PPK post-processing results to correct RTK data
- Configure coordinate system, points and features, localisation, base shift and base maps of imported projects and exporting for filed application

Convenient Road Editor



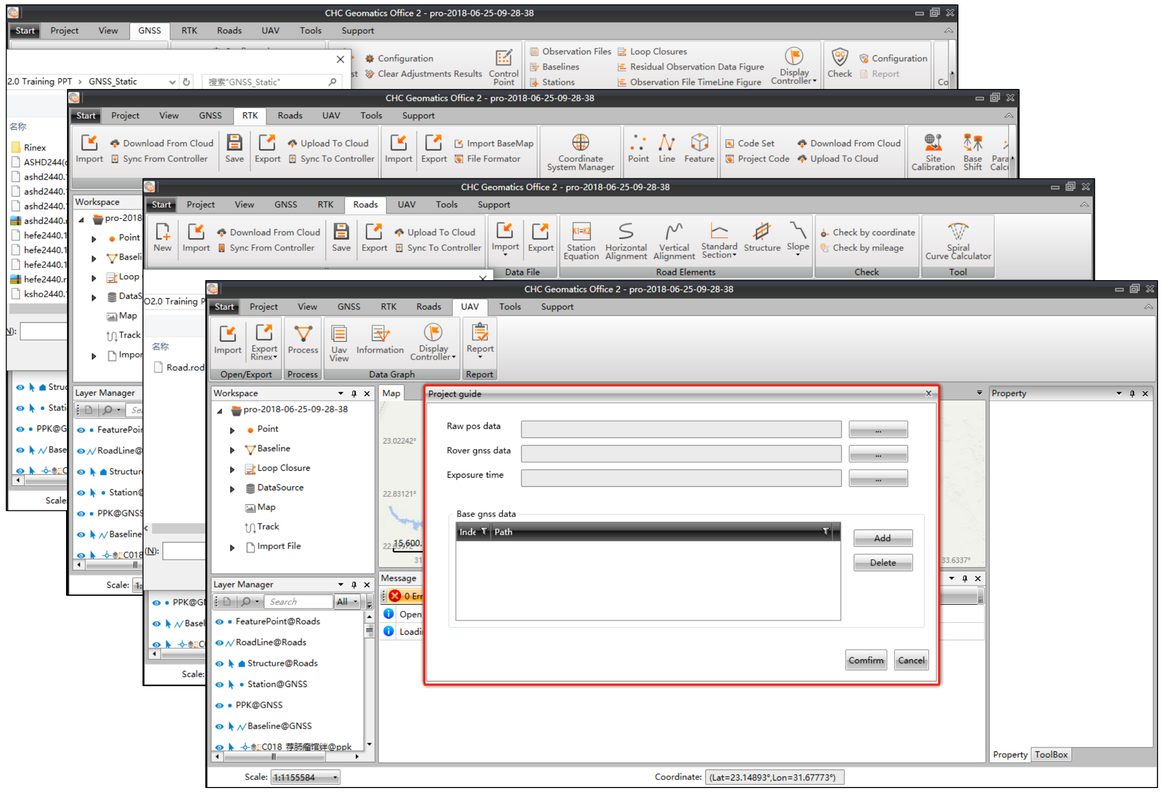
- Support user-friendly road elements editing with Excel data pasting
- Edit road centerline, alignments, sections and slopes data along with facilities such as ditch and bridge
- Check road data by coordinates or mileage
- Support spiral curve calculator for calculating the spiral curve parameter, start radius and end radius

Fast UAV Data Processing



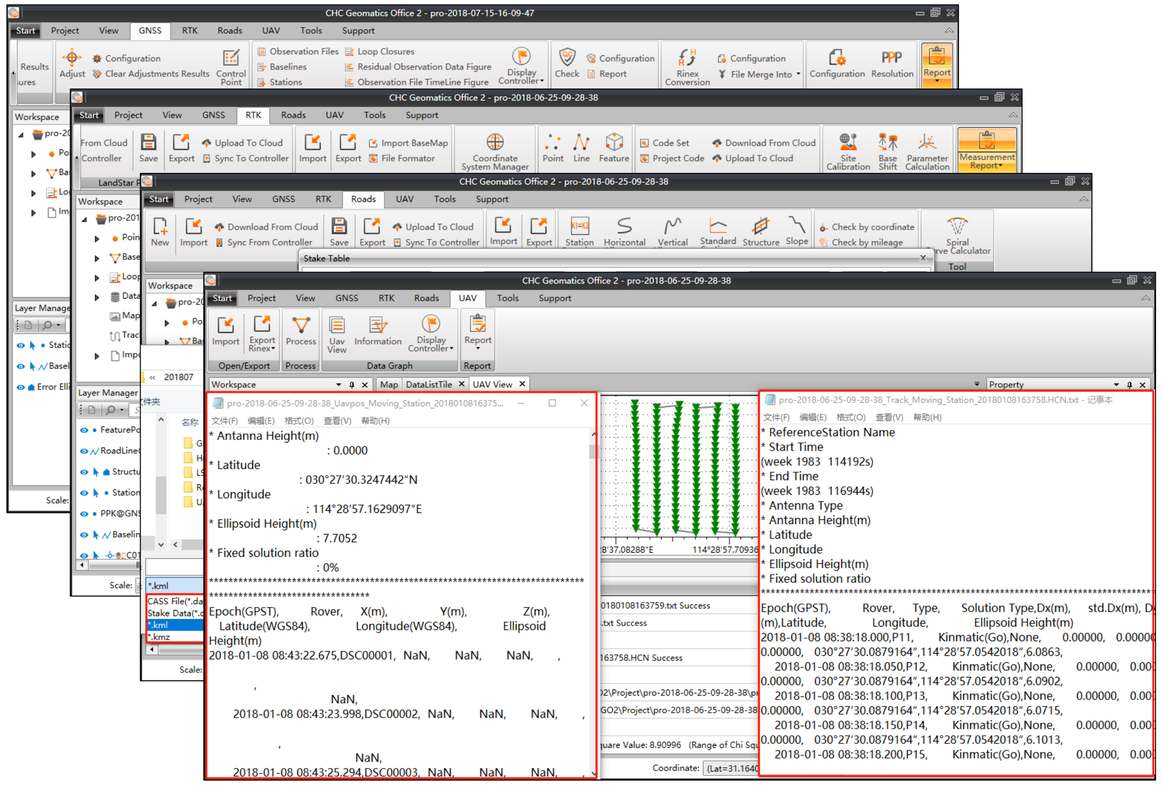
- Get corrected UAV track coordinates by using both RTK and PPK algorithms
- Support UAV track display with both positioning data and RTK data
- View corrected UAV track coordinates of each capture

Extensive Import Files



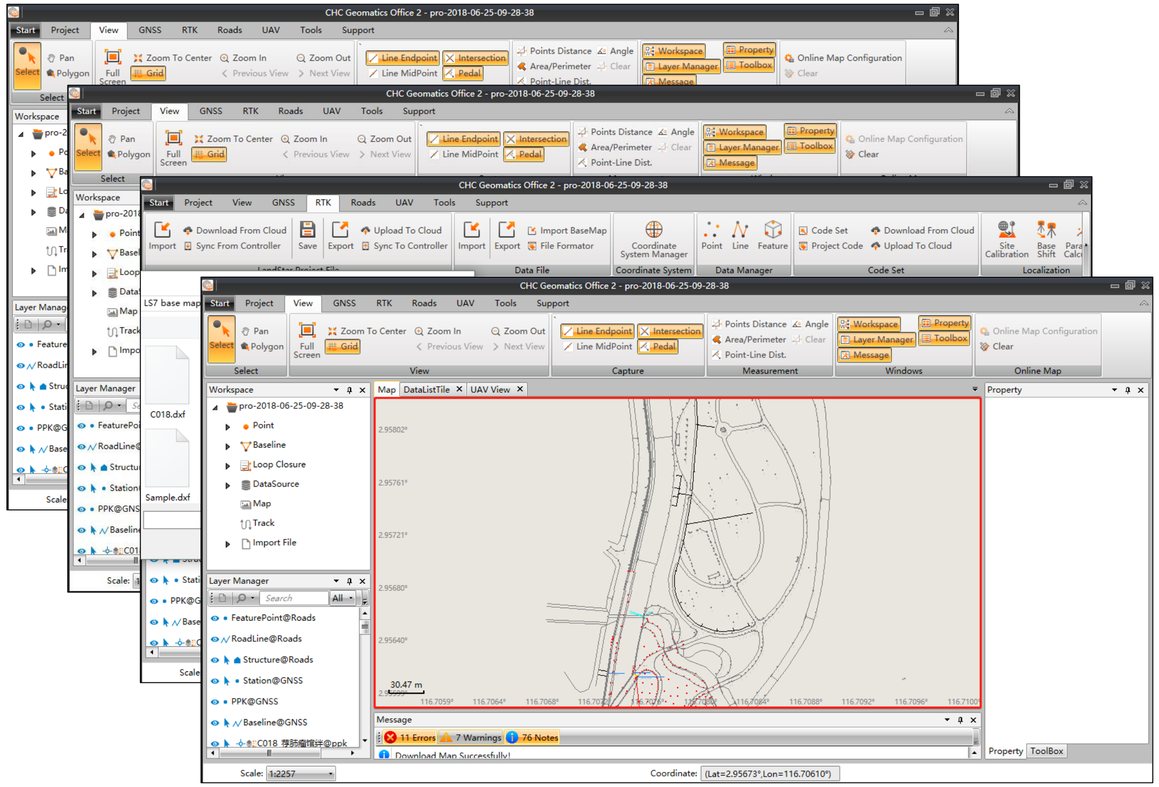
- Support .HCN (CHC observation format), .O (RINEX file format), .NOV, .BD9, .D, .N, .G, .C, .L, .P, .HRC files in GNSS module
- Support .csv, .txt, .dat files in RTK module
- Support .rod in Road module
- Support GNSS data files (.HCN, .O, .NOV, .BD9, .D, .N, .G, .C, .L, .P, .HRC) and UAV positioning data files (.txt) in UAV module

Extensive Export Files



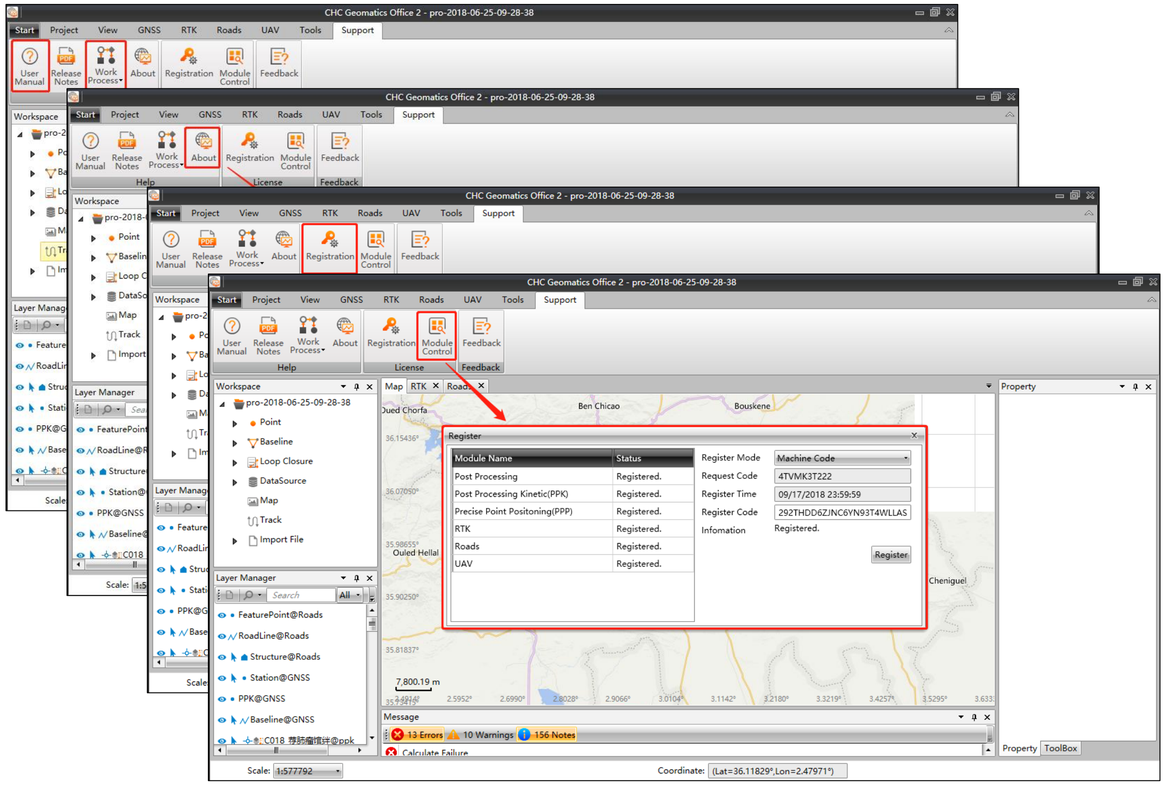
- Support reports as .HTML and .txt files in GNSS module
- Support reports as .KML, .SHP, .DXF, .HTML, .csv, and .RAW files in RTK module
- Support reports as .dat, .csv, .KML and .KMZ files, and allow for saving the road file as a .rod file in Road module
- Support reports as .txt files in UAV module

Various Base Maps



- Support Bing Map, OSM, WMS and WMTS as online maps
- Support .DXF, .SHP and .SIT files as offline base maps

Embedded Help Files



- Call out user guide and work flows by one click
- View the software information
- Support modular registration and display control

In the United States, contact

iGage Mapping Corporation
+1-801-412-0011

www.igage.com/cgo2

For demos, pricing and additional information.

30-day fully functional demos are available by software code.

THANK YOU

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