



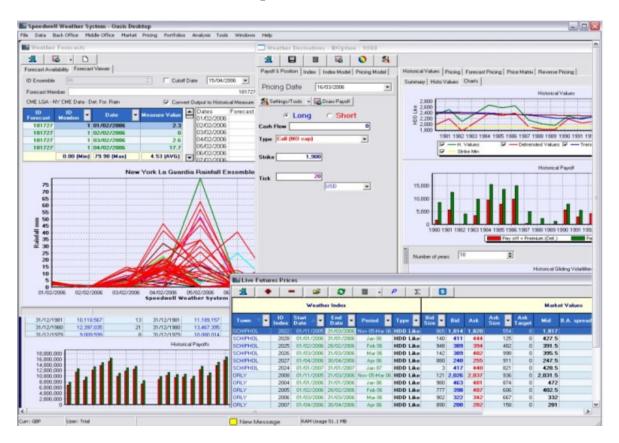
Speedwell Weather System



SWS Vs 6.5

The Open Weather Derivative Pricing and Risk Management System

Secondary Market Trading Key Features







Introduction

The weather derivative market is sometimes divided into two areas: the trading of liquid secondary market products and the trading of tailored and often exotic structures.

SWS covers the requirements of both areas: the former requires tools to interpret and track such market prices. The latter requires an actuarial approach to derive the prices. Portfolios of such assets are normally marked to model but can also be marked to market.

Front Office Secondary Market Features

- Integration of real time market prices via YellowJacket® in a configurable grid showing live futures and options prices as well as trader's own prices, historicals and forecast information (optional component).
- Integration of real time CME futures and options prices (optional component).
- > Spread Calculator for comparing the value of two or more options as a spread or basket trade. Simply click on contracts from the real-time grid, press button.
- Ability to price structures with multiple simultaneous pricing methods and different detrending methods.
- Futures Trade Board for the visualisation of futures statistics and trading positions. Trader-configurable to show desired contracts.
- > Options Trade Board for the display of pricing statistics including Forecast Impact values and burns. Trader-configurable to show desired contracts.
- Analysis of fair value of futures and options using a variety of detrending and pricing methods on any secondary market index (eg HDD, CDD, Frost Days, etc).
- Incorporation of deterministic and ensemble weather forecasts and probabilistic weather index forecasts into pricing models.
- > Price options using market swap level and market implied volatility.
- Option volatility smile extraction.
- Matrix generator for any pair of variables. This is especially useful for pricing options as function of swap level and volatility, and strike and vol for given future prices, etc.
- ➤ Detailed pricing summary including Greeks, marginal VaR, profit margin, return on standard deviation when pricing.
- Market views: record OTC swap and options prices and graph over time.
- Climate and market swap spread curve.
- Black model Option Pricer and reverse pricer (ie back-out implied volatility).
- Support for capped, uncapped, digital and barrier structures.
- > Time value of money taken into consideration.
- > Ticket booking with full auditing.
- > See portfolio of weather risk represented as delta-equivalent swap amount.
- Index correlation generator.
- > Index publisher.
- Cone and term structure of index mean and volatility.
- Index summary position screen to analyse the current sum of trades on any single index.
- Analysis of a number of structures at once.
- Site correlation tool.
- Forecast viewer to see multiple forecasts for multiple reference sites

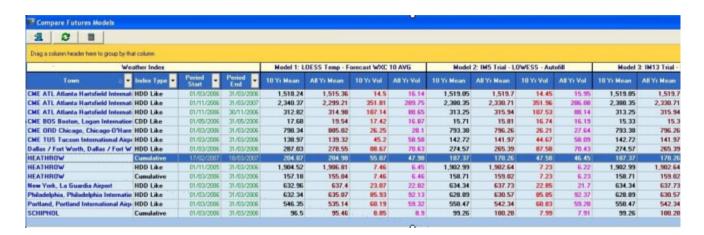




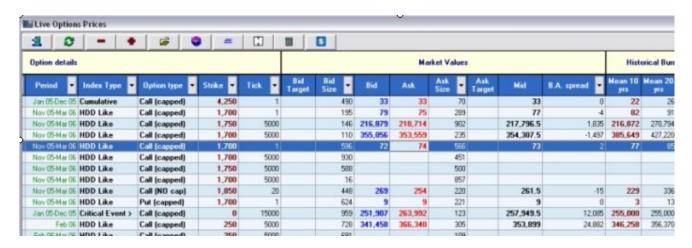
Middle Office Secondary Market Features

- Incorporation of deterministic weather forecasts in all portfolio calculations.
- Incorporation of ensemble weather forecasts in all portfolio calculations.
- Highly detailed and fully configurable expiry and daily Value at Risk reports.
- Markowitz analysis including the difference of portfolio mean for each marginal structure.
- Credit risk to individual counterparties for any period.
- ➤ Complete P&L report from trade inception, turn of year, last valuation.
- > Automated mark to model and mark to market reporting.
- Automated mark to market using CME closing prices.
- New trade(s) marginal impact analysis and implied pricing.
- Ability for independent middle office analysis of portfolio using different pricing models to those used in front office.
- > Automatic generation of discount rates from a rate curve for use in NPV calculations

Futures Price comparator Screen: View multiple prices from user-specified models



Market View Grid: View live OTC prices, forecasts, risk and modeled prices







Back Office Secondary Market Features

- Full reports of all transactions to be settled viewable by counterparty, date, period, trader (etc).
- Automatic data download from multiple data and forecast providers.
- > Automatic calculation of settlement values.
- Automatic alerts and calculation of post-settlement adjustment.
- Forecast cashflows to help manage bank account balancing.
- > Transaction report showing daily, year to date and other period p&ls.
- An optional component now allows automatic generation of trade confirms and invoices integrating with existing SWS back office functionality.

Contact Us

Regarding software and consultancy services please see www.SpeedwellWeather.com or contact:

Stephen Doherty stephen.doherty@SpeedwellWeather.com
Dr Michael Moreno michael.moreno@SpeedwellWeather.com
David Whitehead (U.S) david.whitehead@SpeedwellWeather.com

Telephone:

UK office: +44 (0) 1582 465 569 US office: +1 (0) 703 535 8800

Regarding world-wide weather data and forecast matters please see www.SpeedwellWeather.com or contact:

Phil Hayes phil.hayes@SpeedwellWeather.com
David Whitehead (U.S) david.whitehead@SpeedwellWeather.com

Telephone:

UK office: +44 (0) 1582 465 551 US office: +1 (0) 703 535 8801

Address UK: Mardall House, Vaughan Rd, Harpenden, Herts, AL5 4HU

Address USA: 101 N Columbus Street, Second Floor, Alexandria VA 22314 USA

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