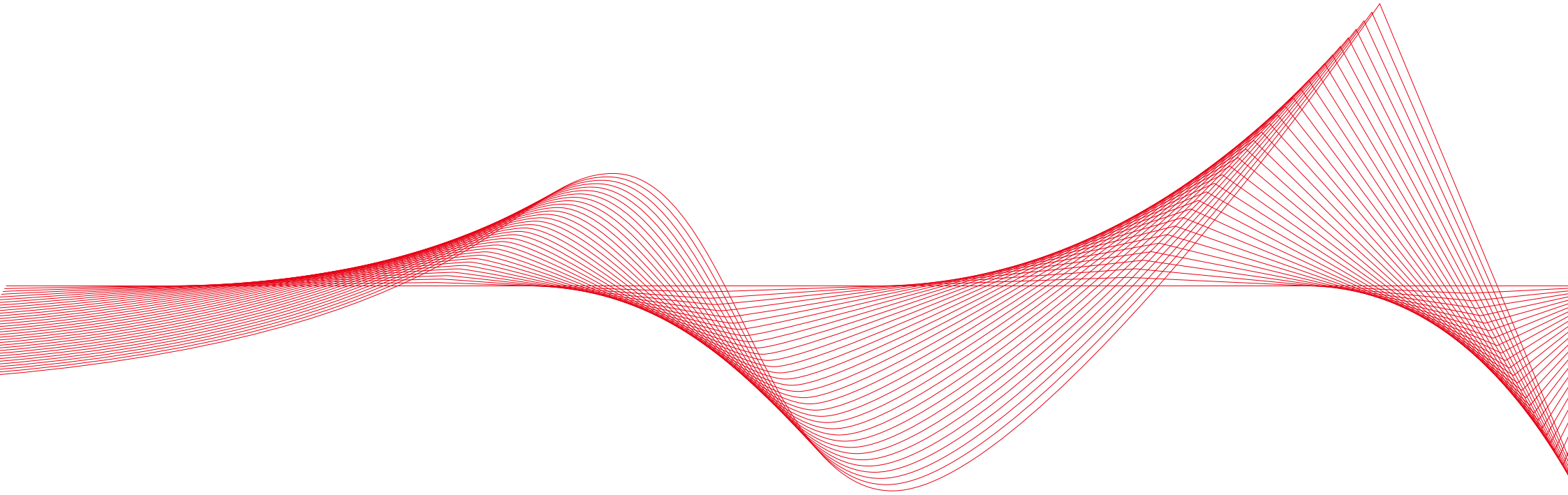


MOC55

MULTIHULL



INTRODUCTION

McConaghy Multihulls is the latest product range from McConaghy, drawing on our 50 years' of yacht building excellence, as well as a storied history in creating some of the world's best-known and best performing race boats.

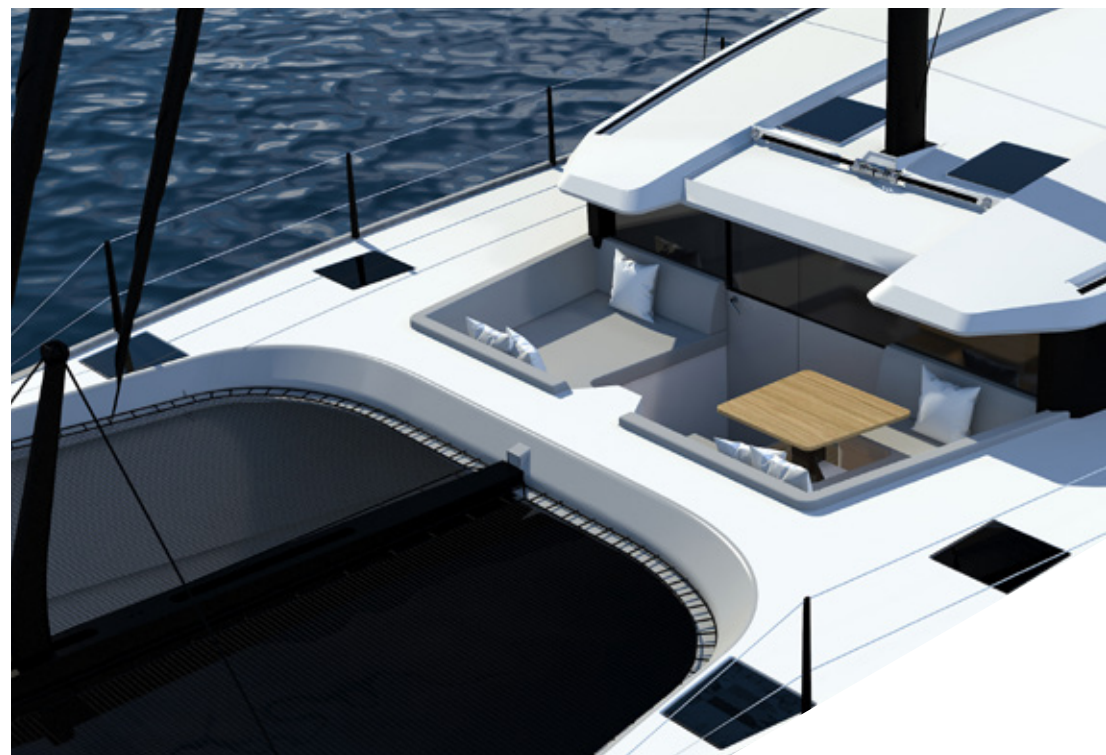
Our continual innovation and investment in new materials and technologies, has allowed us to firmly establish our position at the forefront of progressive high-performance yacht building.

McConaghy is proud to now introduce an entire line of cruising multihulls to our portfolio, created in collaboration with world-leading designers.

The MC55, MC62, MC63p Tourer, MC63p Offshore, MC68, MC75, MC82p, MC86 and MC100 each feature clean lines, apartment-style living and overall, an open and modern dynamic that simultaneously enables more comfortable cruising and better performance; a feat not yet achieved in any other line of multihull.

The first in an innovative series, the MC55 is designed with the performance cruiser in mind. Huge skylight with blind in the saloon, recessed courtesy lights throughout, retractable centreboards and sportier rig make the MC55 the pinnacle of fast, luxurious multihull cruising. Whether you're experienced with multihulls or new to the genre, welcome to a whole new world of performance, style, comfort and safety.





EFFORTLESS SPEED, QUINTESSENTIAL LIVING

Powerful yet easy to manage under sail, the MC55 is the latest addition to the McConaghy Multihulls range. An extremely luxurious finish comes as standard and enhancements to the aft deck give a larger area for socialising, space for watersports toys and additional systems.

The MC55 not only benefits from McConaghy's vast experience building performance boats but also from a carefully considered use of carbon, that sees her precise hullforms achieve an optimum strength to weight ratio.

As with all McConaghy Multihulls, the MC55 has dual helm positions on the flybridge, allowing for the greatest sight lines forward as well as an elevated position that aids more difficult in-port manoeuvres – making her an ideal choice for those new to multihull cruising.

There are two accommodation layouts to choose from; a four-cabin layout (all en suite) or a three-cabin layout, which allows for a large master suite, complete with private study, in the starboard hull.

The wide saloon offers a versatile and spacious living area that, with large windows running the full length of the hulls and fully retractable glass doors aft, is exceptionally light and provides fantastic views. The galley is arranged open-plan to this area, which creates an apartment-like feel and is particularly well suited to socialising and family living.

The MC55's interior styling comes from m2Atelier, an award-winning studio with extensive experience in both large custom yachts and the production sector. Their attention to detail and innovative storage solutions allow living space to be maximised.

GENERAL SPECIFICATION

LOA	.....	16.7M
MAX BEAM	.....	8.24M
DRAFT	.....	1.35M - 3.75M
HEIGHT OF MAST (ABOVE WATERLINE)	.....	26.2M
UPWIND SAIL AREA	.....	150M ²
STANDARD POWER	.....	2 X 57HP
FUEL TANKS CAPACITY	.....	460L
FRESH WATER CAPACITY	.....	460L
HEADROOM SALOON	.....	2M - 2.3M
HEADROOM HULLS	.....	2M - 2.3M
DESIGNER	.....	KER YACHT DESIGN
BUILDER	.....	MCGONAGHY BOATS
CERTIFICATE	.....	CE-CATEGORY A-OCEAN
COMPOSITE ENGINEERING APPROVED	.....	BUREAU VERITAS



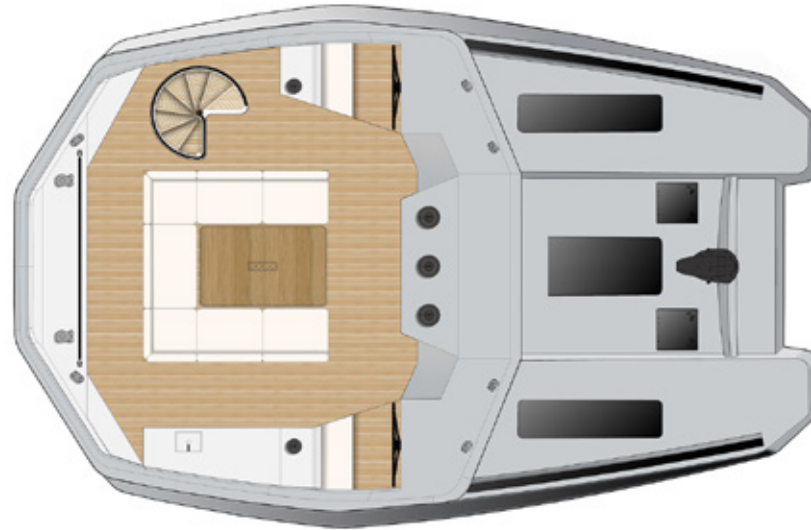
CONSTRUCTION

Constructed using a controlled vacuum infusion process and pressed panels of E-glass, carbon composite and Corecell for lightweight strength and rigidity.

EXTERIOR FINISH

- Painted in high quality two pack polyurethane coating in white as standard
- Non-skid areas on the side decks and coachroof
- Lewmar hatches flush with deck, drained to waterline
- Below waterline surfaces finished with epoxy primer

BASE BOAT INCLUDES - FLYBRIDGE



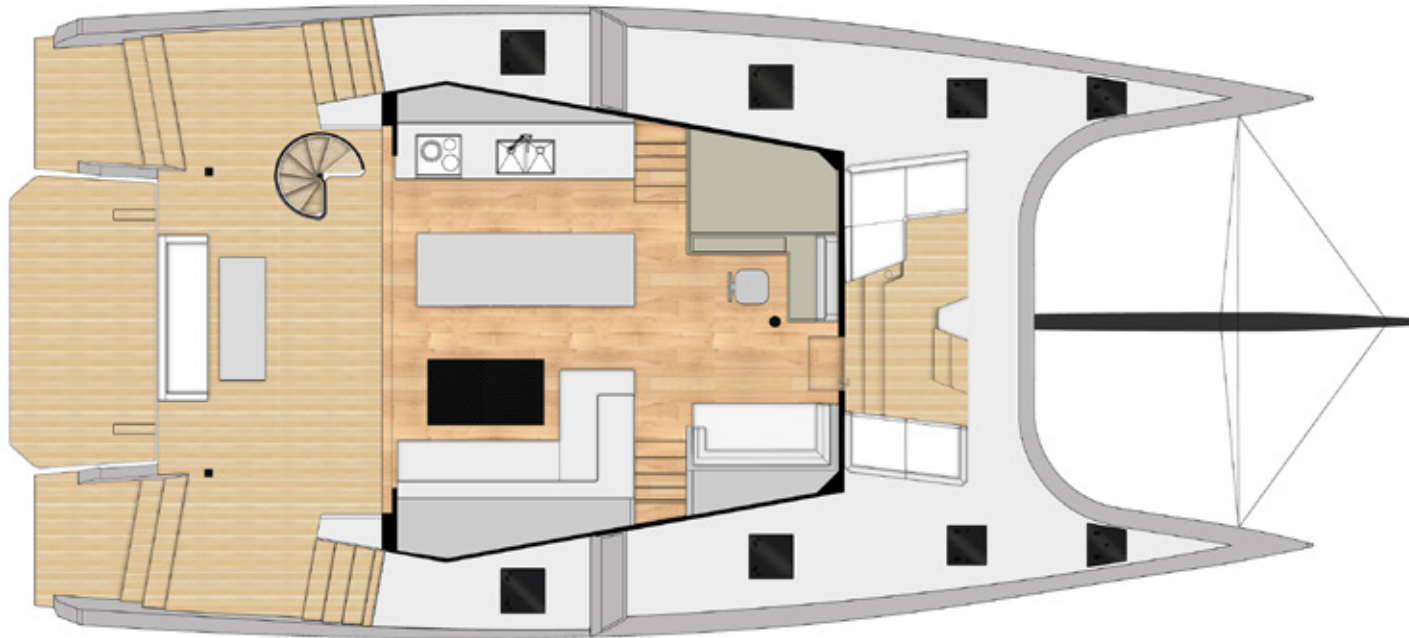
FLYBRIDGE

- Twin helm stations built into cabin top, layout to suit Owner's Nav/Electronics selections
- Twin McConaghy carbon fibre steering wheels, choice of styles
- Five(5) red courtesy lights
- Wrap-around lounge seating

COACHROOF

- Central skylight over the saloon
- Two(2) forward opening hatches
- Two(2) folding steps to coachroof
- Mast step

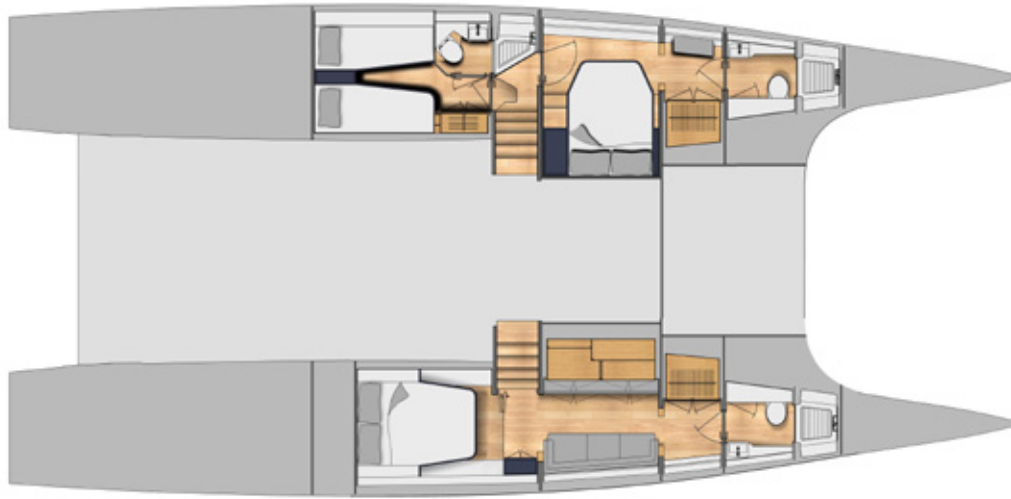
MAIN DECK SALOON LAYOUT OPTIONS



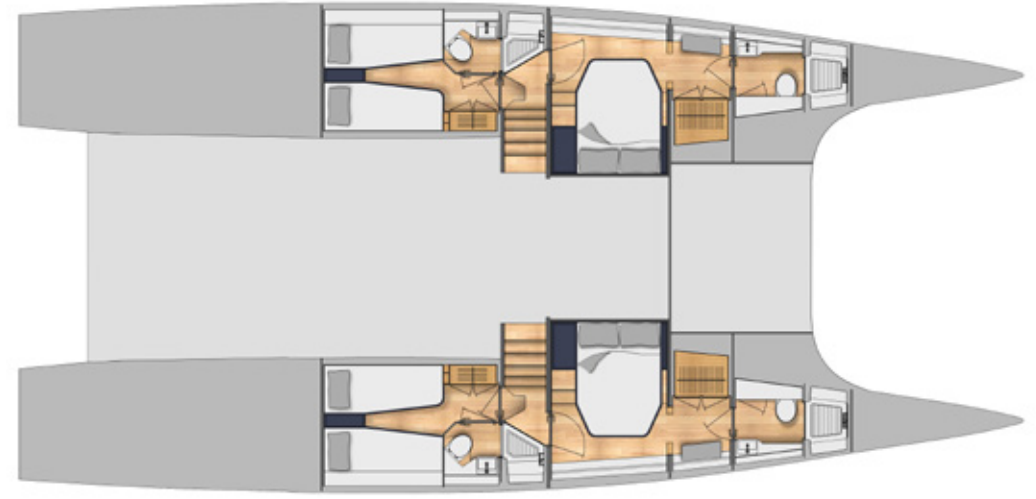
MAIN DECK

- Open living space, free of bulkheads and partitions
- Interior design from m2Atelier
- Choice of headliners, soles, fabrics
- Overhead down lights, recessed strip lights overhead and at floor level
- Large electric sliding side windows for unencumbered views with safety locks

BASE BOAT INCLUDES - ACCOMMODATION LAYOUT OPTIONS



3 CABIN LAYOUT



4 CABIN LAYOUT

ACCOMMODATION

- Spacious, well appointed cabins with efficient use of space for storage
- Choice of headliners, soles, fabrics
- Overhead down lights, recessed strip lights overhead and at floor level, bedside lamps in the cabins, reading lights
- Forward opening hatches over accommodation spaces, smaller hatches over heads

INTERIOR & EXTERIOR FINISHES

Interior and fabric stitching details





Custom built interior



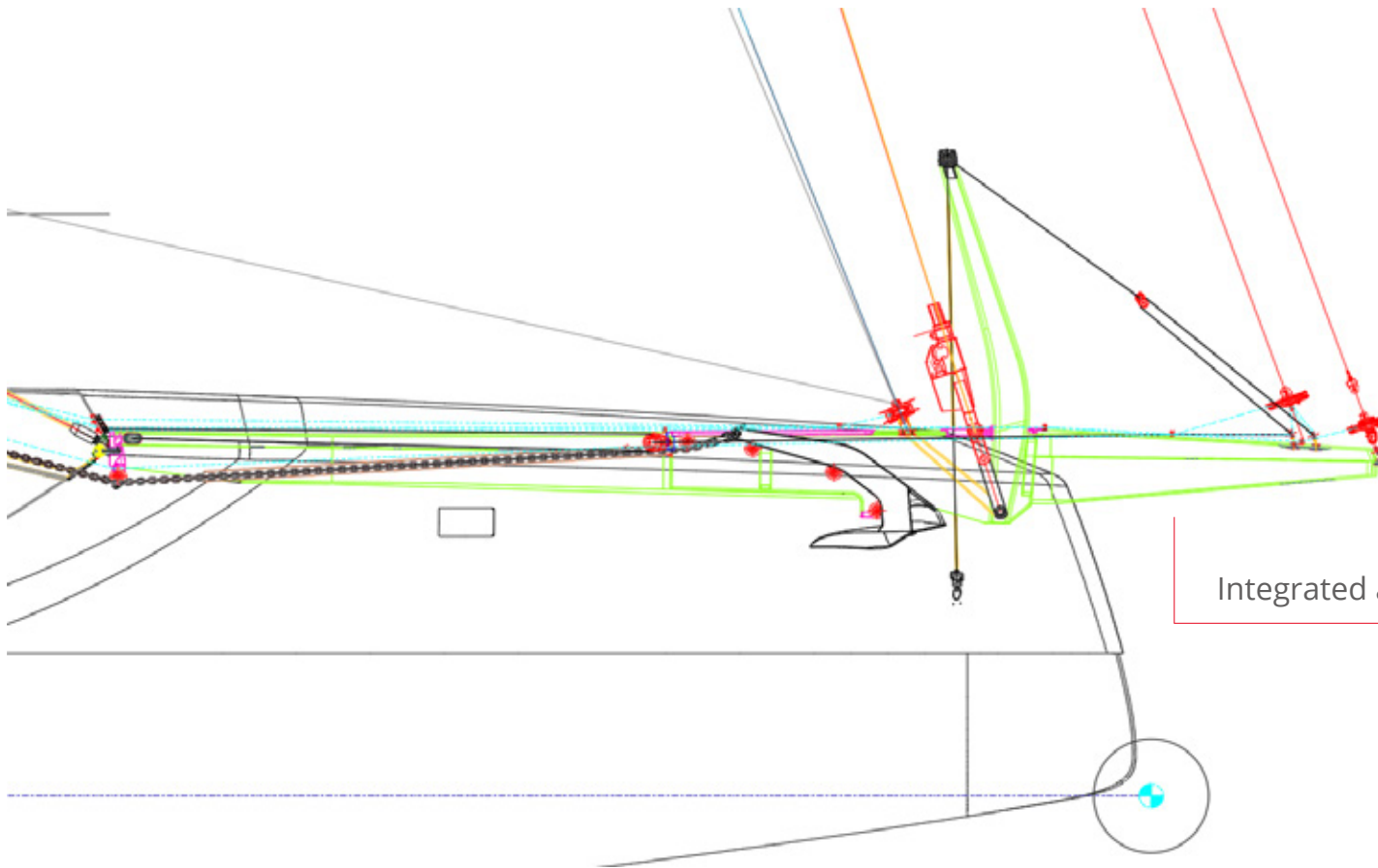


Carbon handrails, stair, helm panel and wheels

TECHNICAL BRIEF

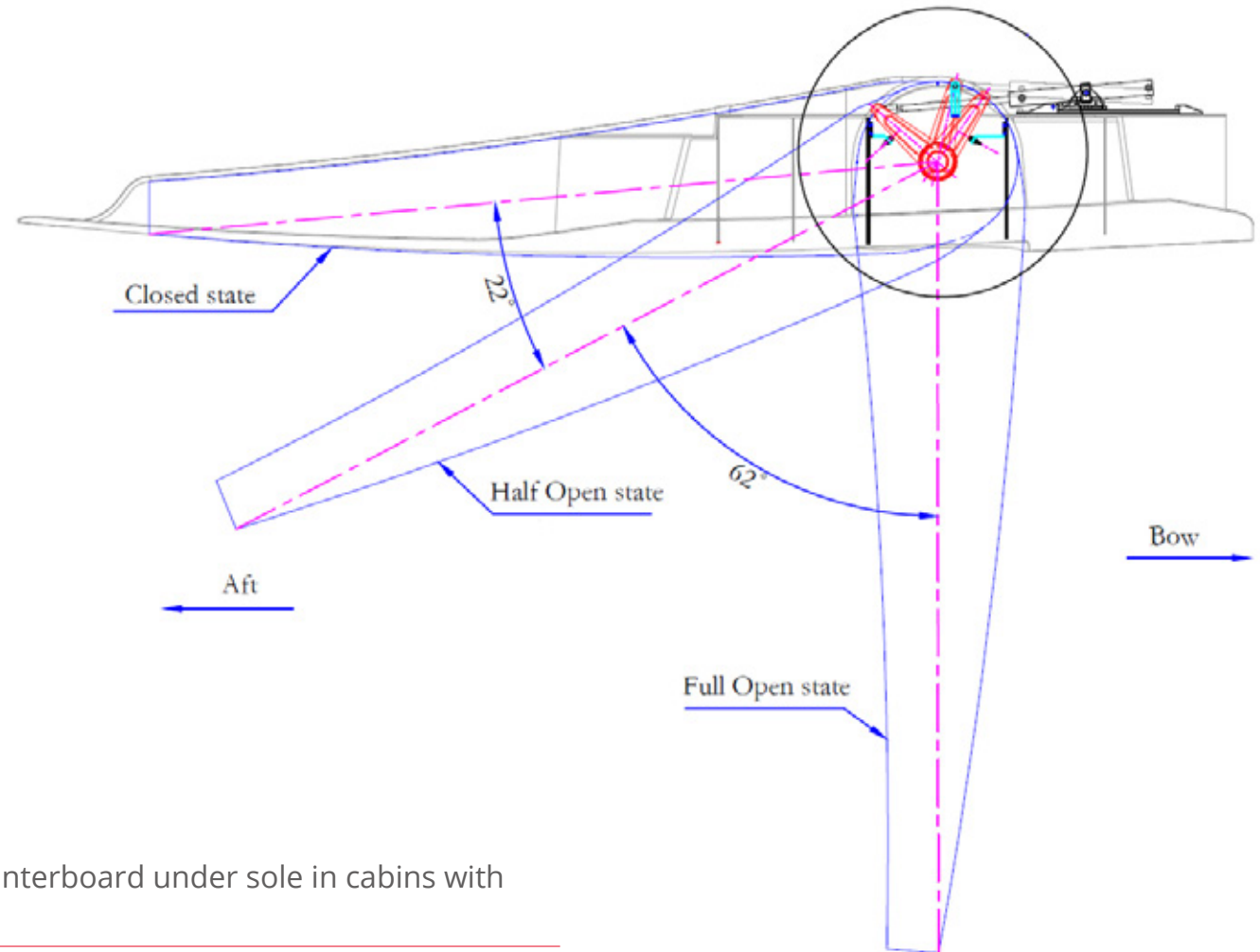
Longeron, Centerboard, Lifting Platform, Polar, Power Curve

LONGERON



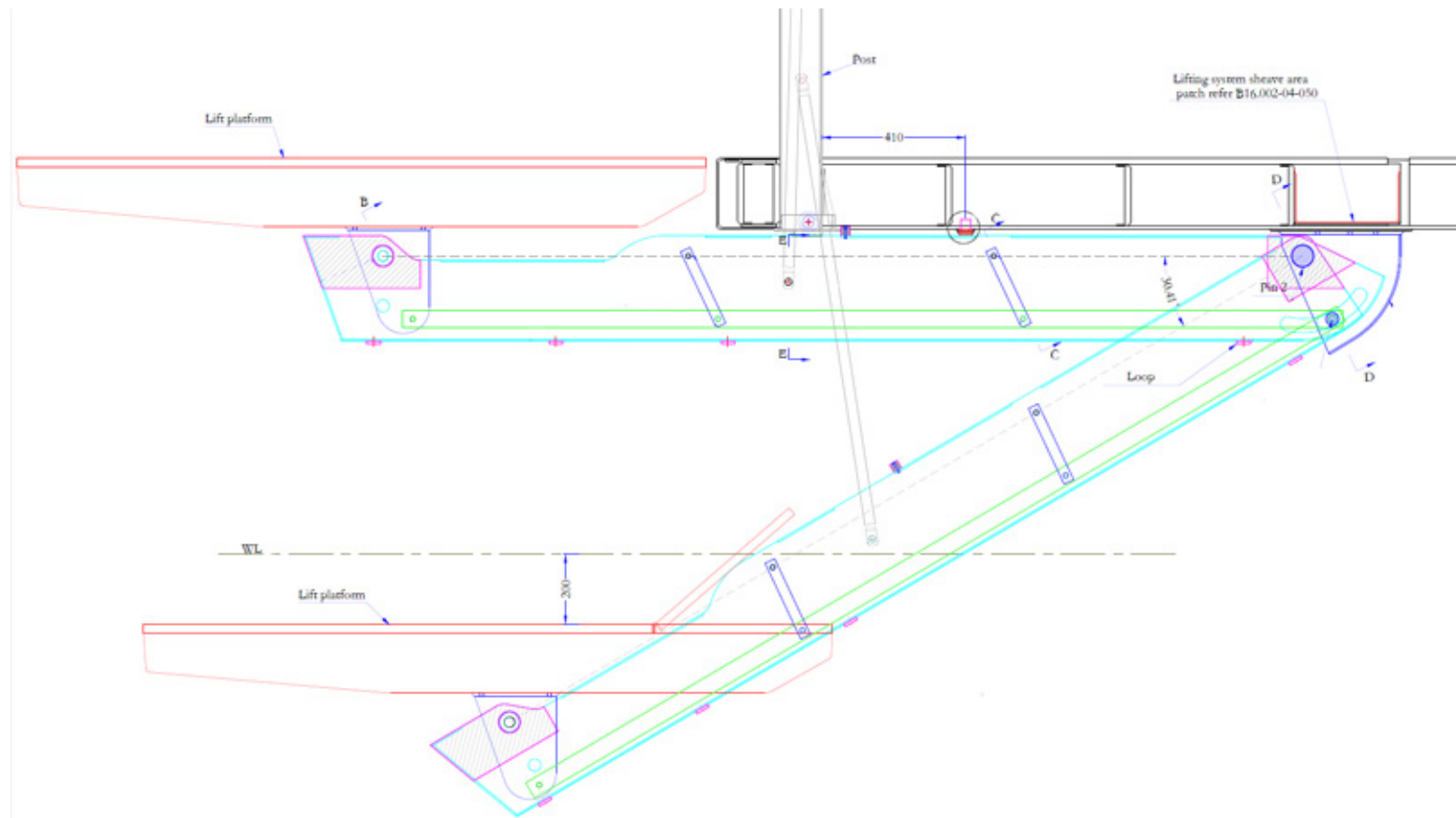
Integrated anchoring system in carbon fiber longeron

CENTERBOARD



Integrated hydraulic centerboard under sole in cabins with safety shear pins

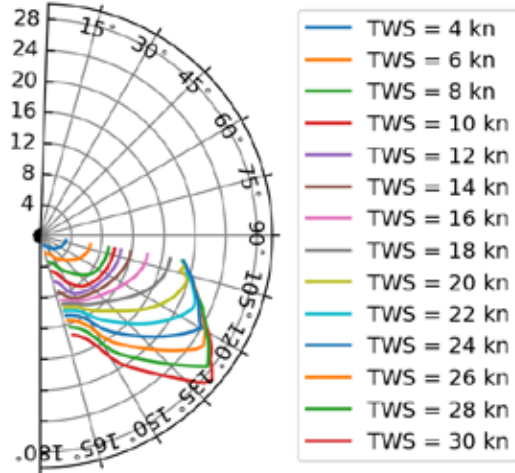
LIFTING PLATFORM



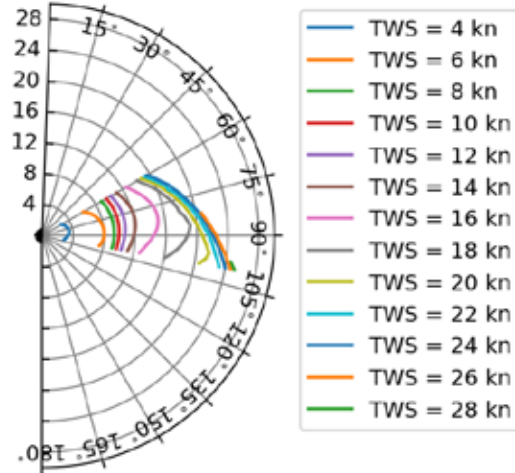
Light weight hydraulic lift platform max capacity 450 kg

POLARS

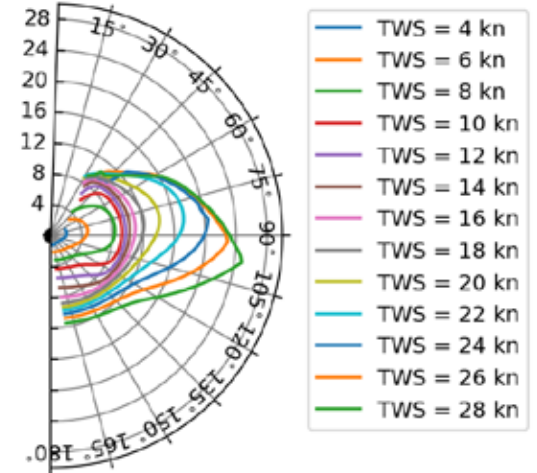
Main(FM) & A4



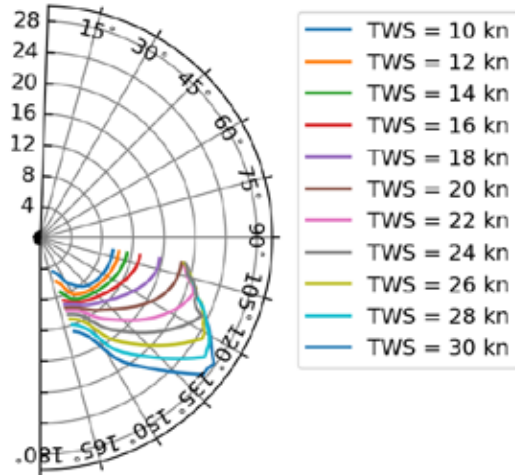
Main(FM) & CodeZero



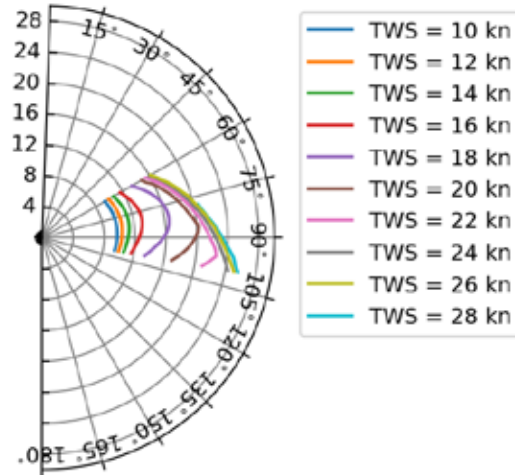
Main(FM) & Jib



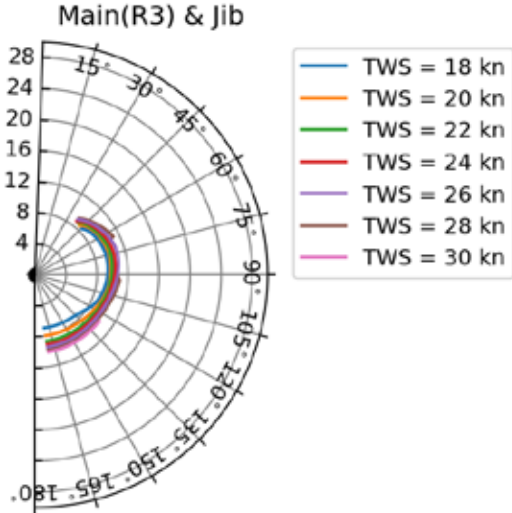
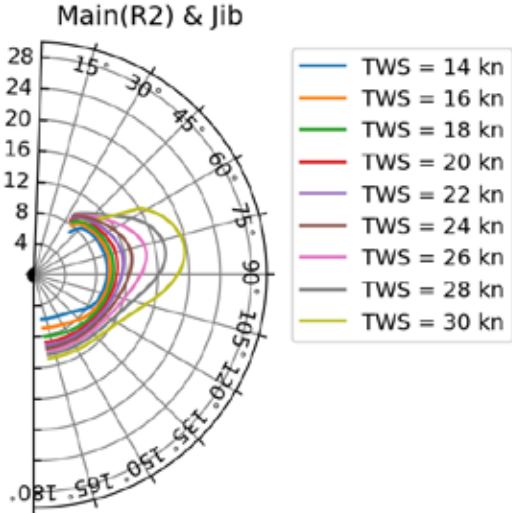
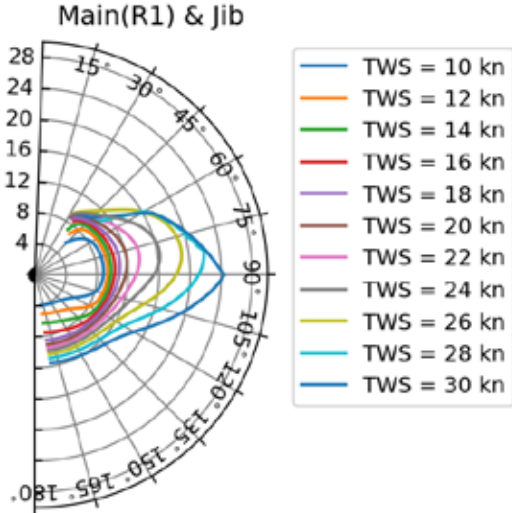
Main(R1) & A4



Main(R1) & CodeZero



POLARS



POWERING REPORT

For: McConaghy Boats
By: Marcus Mauleverer & Jason Ker
Date: 25th May 2021
Issue: B

CONTEXT & TECHNICAL APPROACH

A range of CFD calculations were performed to determine a representative drag curve for the boat to present in this report.

One Yanmar engine option is presented to determine a potential range:

1. 4JH57 with a max power of 57HP

Spec data and RPM curves: <https://www.yanmar.com/marine/product/engines/4jh57/>

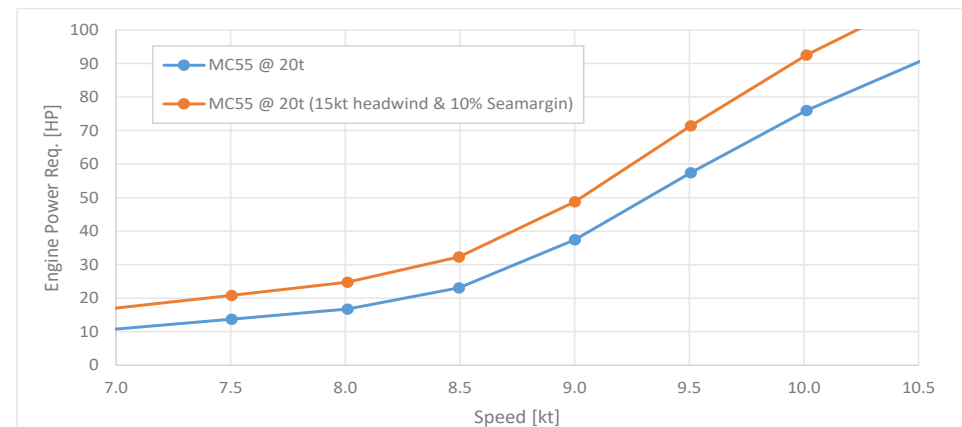
CALCULATION ASSUMPTIONS

- All values presented are 'per-hull'.
- All CFD was run at the same loading condition of 20t (LCB -9.0m)
- The drag calculations include allowance for windage and appendage drag.
- The OPC value used in the powering calculations is at this stage a representative estimate of 0.45. Final propeller selection and efficiency will have an impact on the powering and range.

- Fuel consumption and range calculations are based on published Yanmar data.

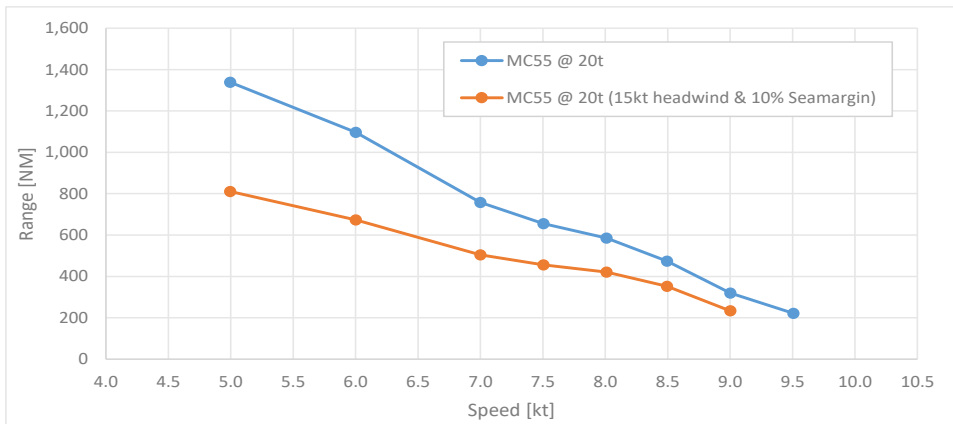
CALM WATER SPEED

The chart below shows the 'sensible' maximum flat water cruising speed (ahead of the steep section) to be in the region of 8.0 to 8.5kt. At full power, the engine can power the boat at circa 9.5kt. With a headwind of 15kt and a representative seaway margin of 10%, the maximum speed drops to 9.2kt.

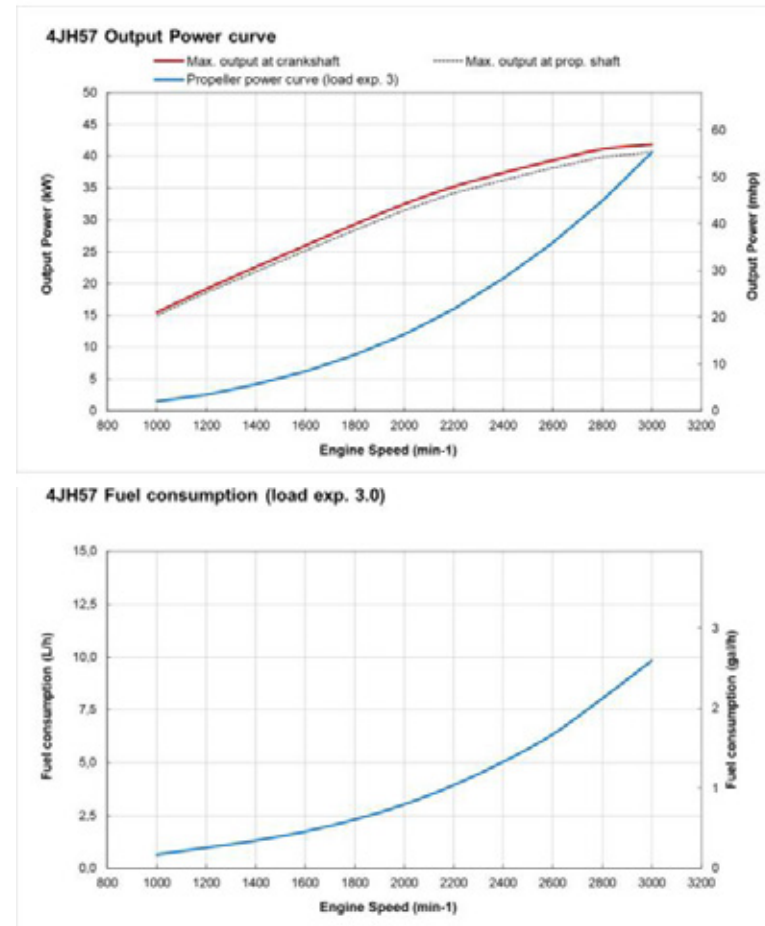


FUEL CONSUMPTION AND RANGE

Reviewing the Yanmar propeller curves (see below), we have interpolated RPM, and fuel consumption values for each CFD processed speed, to determine the range of the boat at each speed. The fuel volume assumed to be consumed is to be the total available (i.e. 230 litres per hull).



YANMAR CURVES - 4JH57





MC55
MULTIHULL

McCONAGHY

MULTIHULLS

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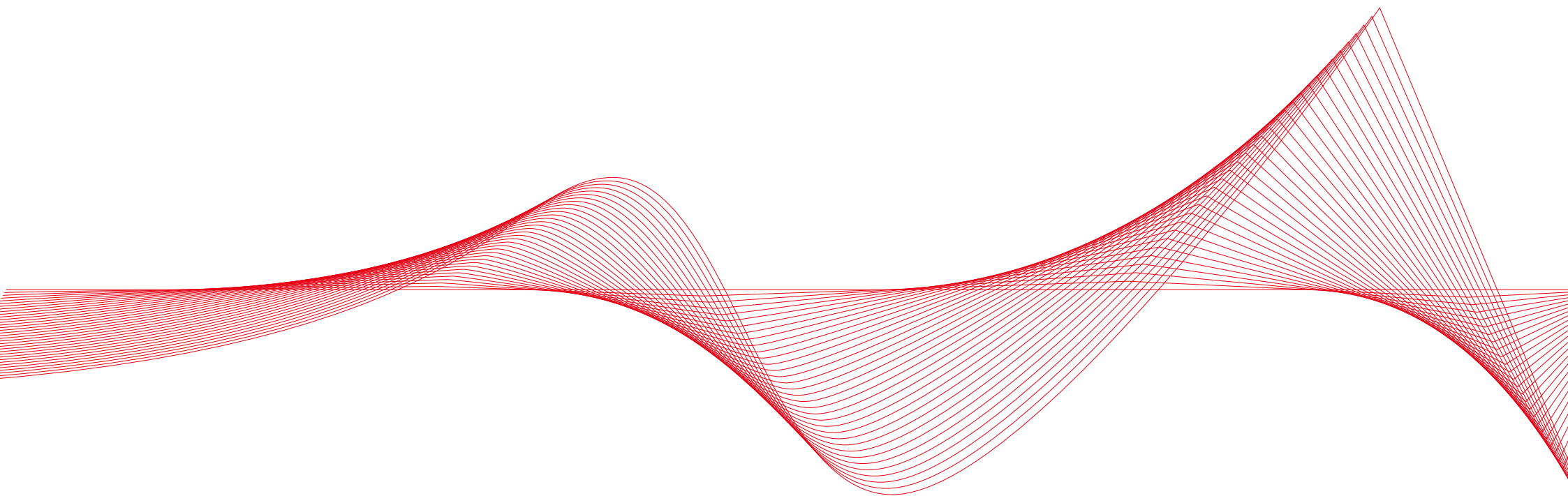
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McCONAGHY
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