

We wrote about the dismasting of Berrimilla on her return from the Sydney-Hobart Race in the March issue. Now Alex Whitworth looks at the lessons learnt from the events that night

otoriousforitstoughconditions, the Rolex Sydney-Hobart Racegets all the headlines, but the delivery home afterwards can be almost as challenging as the race itself. The decision to leave Hobart may be based on the need to return to work or some other pressing crewde ad line, the boat is usually short-crewed, sometimes with backpackers and other aspirants along for the ride and the prevailing winds on the Tasmanian coast in January are mostly southerly or north-easterly.

It is next to impossible to make headway into the north-easterly, but souther lies are based on the tight and often nasty series of lows that sweep across the Tasmansea and they can blow at 30-plus knots for a week at a time.

Thenthere is the Bass Strait. At the north - eastern end of the strait, various things happen. We stern Bass Straits helves rapidly and there is always a big southwesterly swell that has rolled in from the Southern Ocean. Just to make life exciting, there is often a net easterly flow of water through the strait. And then there is the East Australian current, which flows south down the east coast, sometimes at up to three knots. If there has been a north - east sea breeze on top of all this, there will be a long low swell from the north with wind waves often breaking on top.

This combination, together with an increasing south-westerly gale makes for nasty conditions off the south-east corner where the two systems meet.



Iawoke dazed and disoriented, having been unconscious for perhaps a minute or so and in severe pain

This was more or less the situation as we reached the halfway point. We had left Hobartatmiddayon 4 January with Peter Crozier, Allan Fenwick and myself from the race crew and Tom Crozier (no relation, but owner of an S&S 34) on board for the experience.

The conditions when we departed were not unusual, althoughrathermorecomplex than the standard succession of highs and lows, with a series

of smaller lows forming to the north and no obvious pattern to the systems. Berrimilla has HF with Sailmail, so has weatherfax and the ability to pull in half-degree resolution GRIB weather forecasts. We also have VHF and listent other egular wxbroad casts up the Tasmanian coast. As back-up, we had Sat ComC, configured to give us regular EGC updates from the various Met Offices. We were also in regular contact with other boats on the HF.

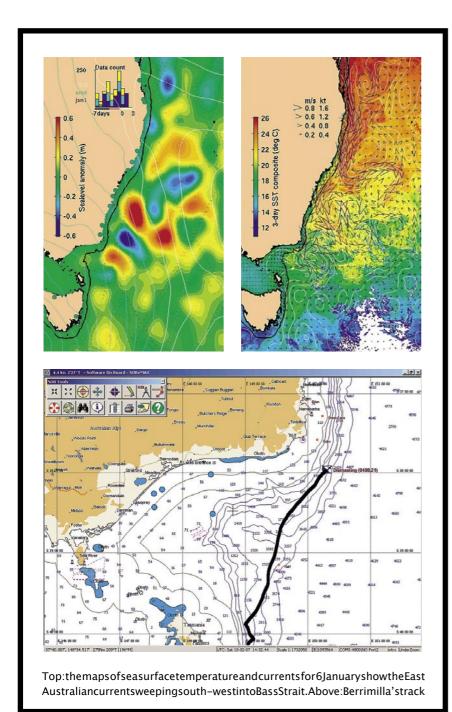
As we approached Flinders Island off the northeast corner of Tasmania, Iwas following the weather information on all of these. The wind was due to go north-east briefly, then back around to the west and increase to 25-plus knots along the Victorian coast, 120 miles to the north. Ideal conditions for crossing the Paddock, so off we went. By halfway across, the wind had increased to 35-40 knots and the Bureau of Meteorology had issued a gale warning for the Victorian coast. This was still no real threat-in fact, we had often sailed through such conditions in Berrimilla - and we carried on.

The wind duly backed to the south-west and, as it continued to increase, we dropped the main and surged on under the No 3, still making six to eight knots and loving it. Late in the evening, about 60 miles south of the Victorian coast, the wind had increased to a steady 40-45 knots and these as were building. We thought it prudent to drop the No 3 and head under bare poles to the north-east and made very good progress, hand-steering at four or five knots down what were now very big swells.

Itishardtojudgewaveheights, especially atnight, but they seemed to be about 5–6m, with the crests

Berrimillaisa33ftBrolgain which, youmay remember, two Aussie guys in their sixties attempted to take partin the Sydney-Hobart and Fastnet races in the same season in 2005, sailing the boat round the world in the process

Photos: Eden Water Police







Berrimillaisastrongandseamanlikedesignandthecrew had the interior well secured and watertight

perhaps 100 mapart. The windreached 50-plus knots in the gusts (the Met Office later estimated the gusts at 60 knots) and with each gust came as uccession of much bigger waves, perhaps twice the height of the average waves.

The boat was closed down except for the two venturis on the coachroof, so theoretically we were watertight unless upside-down. We had already decided that conditions were too difficult for Tom, our less experienced mate, so we had one of the three regular crew steering in the cockpit in full harness and party gear and tethered while the other three rested below.

We worked two hours on and four off. Berrimilla seemedtobehandlingthingswithherusualaplomb andlwasnottooconcerned, althoughthere is always that little corrosive doubtin the gutwhen things are close to the edge. Anyway, I handed over to Pete at 0200 and went to sleep in the starboard lower bunk - my first real sleep for several days.

I awoke dazed and disoriented having been unconsciousforperhapsaminuteorsoandinsevere pain with what felt like (and later turned out to be) a brokenshoulderjoint. Ihadnoideawherewewereor whathad happened and asked if wewerestill racing. Tomand Allan were bruised, but otherwise seemed OK (we discovered later that Allan had two broken ribs) and they told me we had been dismasted.

It was very dark, but with a big Dolphin lantern lit I could see that the boat had water up to the bunks, with everything movable floating around in the surge or submerged in it somewhere.

There was a huge hole compressed down into the cabin on the port side of the mast collar, the halyard turning blocks and other fittings protruded downwards and the whole deckhead was grinding



THINGS WE GOT RIGHT

- n The boat was prepared and watertight, with (almost) everything secured, including the laptop, iceboxlids, navtable lid, sparefuel containers and the heavy storm boards were in place and closed.
- n Pete was tethered, in full safety gear.
- nTheDolphinlanternswerestowedproperlyandeasytolocateinthedark;likewise flares and other equipment.
- n Ditto the satphone, double—wrapped and sealed in a plastic box. AMSA direct line phone number programmed into it (not their 1800 number, which doesn't work outside Australia), but in my rather dazed state I could not remember how to find the number so. . .
- nBothAMSAandsatphonenumbersarewritteninmarkerpenbesidethenavtable as back-up and Pete was able to read out the AMSA number for me.
- n All the instrument head backs had been coated with aerosol lanolin and this gavethemlimited protection while they were submerged, but it seems water may have penetrated through the breather holes. They worked, albeit intermittently, all the way back to Sydney.
- nQuickactiondryingofftheelectronicsmayhavesavedtheradiosandtheSatComC. nTheboatwaspumpedout,themastcutawayandtheenginestartedwithinabout an hour of the incident and we were able to cancel the Mayday by satphone and maintain a satphone sched until help arrived.

There was a huge hole compressed down into the cabin and the whole deckhead was grinding ominously

ratherominously against itself and, as it turned out, the broken end of the mast above it.

The stump of the mast was waving around inside the cabin, the lowest break having occurred about 1ft below the coach roof. The window above the galley on the starboard side was smashed – we think that this was where most of the water had come in as the boat rolled to starboard.

Tom had already checked that we still had Pete in the cockpit and we got onto the pumps and buckets. My head cleared slowly and I thought perhaps the EPIRB might be a good idea – at this stage we had not found the tools and the mast was still attached and grinding. We had no real indication as to the extent of the damage. I climbed over the lower stormboard and took the EPIRB into the cockpit, activated it, threw it into the water, tied it to the pushpit and went



Pete Crozier and Alex Whitworth during their circumnavigation

back down to bail some more. It was about 0340 on Monday 8 January.

Oncewehadfoundthetools, Petestrappedhimself on deck in his lifejacket, unscrewed the boom at the gooseneck, took the furled main out of the mast slide and lashed the boom and sail to the grabrails. He popped the toggle pins from the shrouds, but had to hack saw the innerfore stay and the back stay. He also hack sawed the haly ard sandother lines and dropped the mast over the side in several pieces.

By this time my left arm was pretty much useless and we were all getting very cold. I sat on a bunk wrapped in a blanket and got on the satphone to the Australian Maritime Safety Authority (AMSA) and

Alex on the laptop at the chart table. During the storm the laptop was secured, but was not in a plastic bag. It got wet, but Alex thinks it is recoverable

THINGS WE GOT WRONG

nWeforgottosecurethelidoftheengineboxstep,containingthetools,aerosolsand a very large, heavy shifting spanner. This could have been disastrous.

 $\label{eq:nthe} \textbf{n}. The laptop was not in a plastic bag-we don't usually do this and it did not seem necessary at the time. Water through the broken window soaked it, but I think it is recoverable.$

nAllmycharts and publications were in a big semi-water proof folder in the navtable or in sealed plastic bags in a plastic filing case. We discovered that this was not good enough and everything was water-damaged or just plains odden. Sealed and taped plastic tubes might have preserved the charts and at least two Ziplok bags per book. nAs mall point, but even the most carefully wrapped and sealed matches are likely to be useless in similar conditions. I always have a pack of water proof matches in the boat, but either some one had removed the morthey are still lodged in a crevice some where in the bilge. As a result, we could not light the methos to ve. Serious gloom.



Start of the 2006 Rolex Sydney-Hobart Race and Berrimilla is going well. Despite the tough conditions, she finished the race 9th in her class told them we were all OK and we were sure we would be able to save the boat. They told us not to turn off the EPIRB and that the rescue aircraft was getting ready to take off from Melbourne and would be with us in an hour or so. They had diverted a merchant ship and the Eden Water Police were on the way and would reach us in about three hours. We arranged an hourly sched' by satphone until help arrived.

Then we started to try to minimise the damage, proppingupthecoachroof, stuffingthewindowwith blankets, drying off the radios and other electronic blackboxes and the instrument backs and doing the rounds on the pumps to monitor water levels, as well as sorting through the sludge to find whatever we could and either stow it or fix it.

We pumped out the rest of the water, cleaned up

The impact of the wave and the roll was so quick that Pete was thrown over the starboard quarter and was trailed on his tether, twisting like a fishing lure asmuchofthestewaswecouldandcheckedforlines over the side. Hearts in mouths, we hit the engine starter button and it started first kick. Amazing.

Weatherconditionswerestillawful, butthestorm was abating. It was a black night, with occasional Turneresqueexplosionsofmoonlight, bigbreaking waves and low, blasting rain squalls. The aircraft arrived at dawn and couldn't find us, so I fired a red rocket flare, which they saw and came in. The ship arrived out of the gloom at about the same time. Our waterproof handheld VHF had been retrieved from the bilge and although I could hear both ship and aircraft I could not transmit.

The Water Police arrived in great style in a cloud of spray at about 0800 and also couldn't find us. The ship gave them directions and we established contact. They were magnificent - in a superb displayofboat-handlingundertheconditions, they transferredaradioandwewereabletocommunicate.

Ithoughtitwastoodangeroustoacceptatowand after some negotiation, declined it. We agreed to motor to Gabo and take a tow from there, a good decisioninretrospect. Wemetthe Water Policeabout seven hours later and they towed us into Eden.

Talking about it later, we decided that a very



Alex and Pete at the completion of their circumnavigation before taking part in the 2005 Sydney-Hobart

big wave from the port side had rolled us violently to starboard to about 180°. Pete said there was no warning and he did not hear it or even feel the boat start to rise. The impact tore the bolts through the starboard chainplate, smashed the liferaft canister and the galley window and – probably – broke the mast on the way down.

It was so quick that Pete was thrown over the starboard quarter into the sea and was trailed on his tether, twisting like a fishing lure. The boat rolled upright immediately the wave had passed (five seconds or so later, according to Allan and Tom) and Pete was tossed back onto the pushpit and climbed aboard. He said the mast was still standing, but swaying and it fell over the port side almost immediately, taking one of the spinnaker poles with it. It then broke into several pieces and started grinding away at the coachroof and fittings.

Finally, EPIRBs and the SAR system worked brilliantly. A huge thank you to the people at AMSA, the Master and crew of the MV Raku Yoh who came and found us and stood by, the crew of the rescue aircraft from Melbourne and especially to Sergeant Jim Hinkley and the crew of the New South Wales Water Police launch Falcon from Eden.

THINGS TO THINK ABOUT

n If we go offshore in little boats, we are acutely vulnerable to the effects of big breakingwaves. That said, I have always believed in the active method of dealing with extreme weather. This is to sail the boat and try to minimise the effect of the wind and waves, as opposed to heaving to or lying to a sea anchor and letting the sea do its worst.

n In Berrimilla, what seems to work best is to keep the wind about 60° off the boworth equarter and when possible sail to avoid the breaking crests. However, compared with the size of some of the waves we have met, Berrimilla is a tiny boat and she is very much slower than the speed of the waves. This means that the waves over take us when we are sailing downwind and they tend to break over the boat and into the cockpit.

n I have no doubt that we have been lucky to get away with this tactic for so long and clearly, it did not work during this incident. However, lamnot convinced that a sea an choror a simple heave—to would have worked any better. At best, the boat would have been facing the other way, but I think we would have been rolled any way. A storm jib or trysail might have helped by giving us a bit more speed, but only if we could have seen or felt the wave. We had plenty of sea room and I think we might have done better if we had turned to sail upwind. In 1998, in exactly the same spot but racing, we were going south in similar, but more severe conditions with the trysail up and, although we were knocked down several times, the worst that happened was a cockpit full of water.

nThe principal downside of the active approach is that someone has to be in the cockpit unless the boat has a windvane (which we used extensively during our circumnavigation). The problem with both the active and passive approach is that once you are committed, it is very difficult to change your mind.

nTheonlyothertimewecamesoclosetodisasterwasinsimilarconditions, butin daylight, about 50 mileseast of The Snares, off the south-east corner of New Zealand. Both times we were in relatively shallow water, just to the east of a huge rise in the seabottom. Both times we had been bare-poling downwindin as outh-west storm, with big gusts under blasting rain squalls over a very big south-west swell.

Off New Zealand, we were both on deck and we saw the wave train that rolled us. Wewere caught by the second wave of the series, which reared up to about mast height and had a near-vertical front and breaking top. Berrimilla was rolled to port, but not as far as in the more recent incident and the mast survived.

Itisperhapsworthaddingthatbothincidentsoccurredattheendofthestorm, when the wind had just started to abate. Perhaps there is a period when the flatteningeffectofthewindhasdissipatedbutthewavesarestillrelativelypeaked, so are just that bit more dangerous.

I think we have been given a timely reminder that the sea is indifferent and ultimately invincible. Bare-faced cheek has a use-by date and we seem to have reached it.



Safe in port, Berrimilla sports a jury rig

Payment for this articlewillbedonated to the coastal patrols at Edenand Bermagui with our thanks.

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