

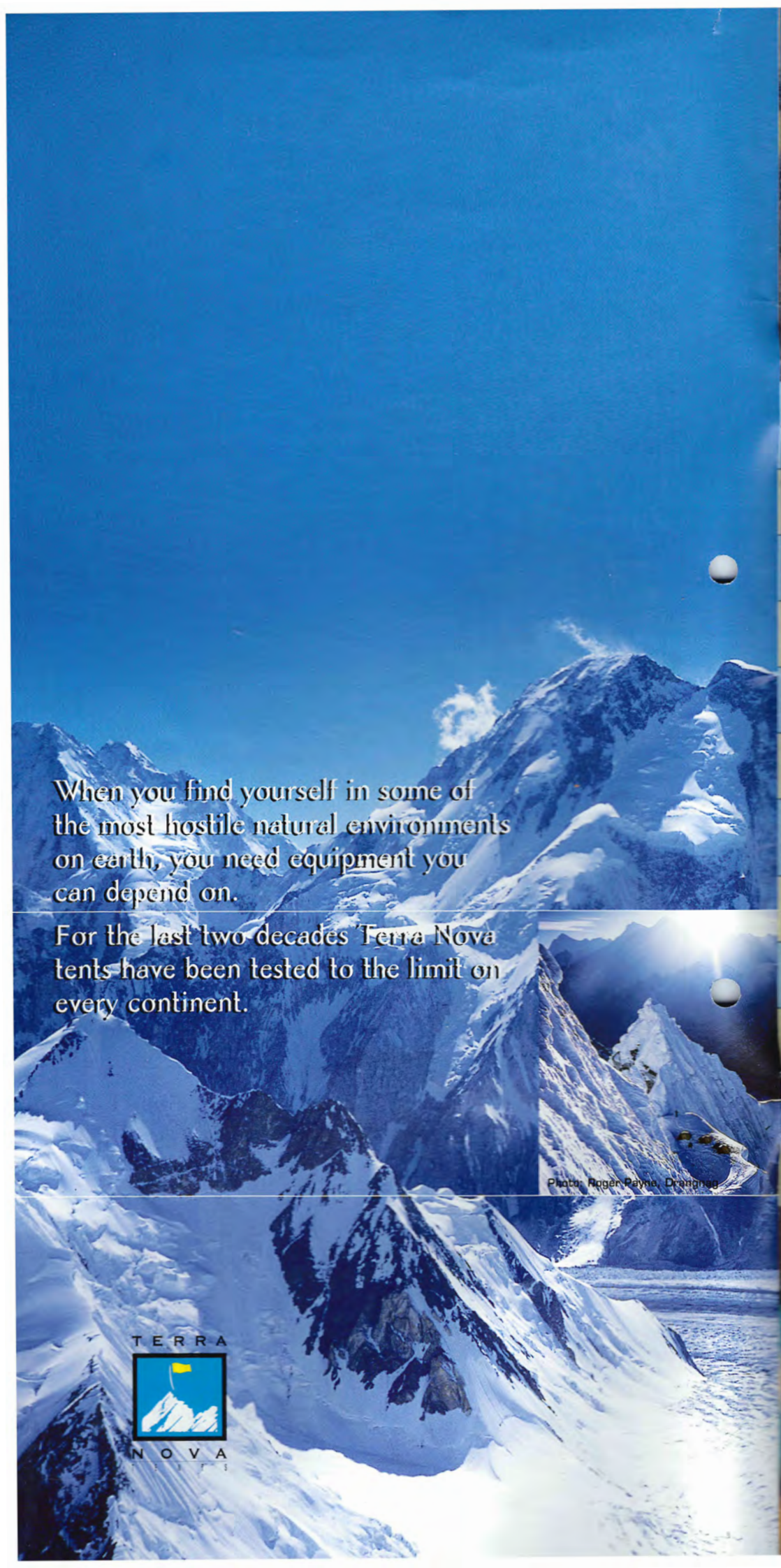
Terra Nova

tent range 1999



one man's hell is another man's heaven



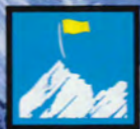


When you find yourself in some of the most hostile natural environments on earth, you need equipment you can depend on.

For the last two decades Terra Nova tents have been tested to the limit on every continent.

Photo: Roger Payne, Drangon

TERRA



NOVA

At Terra Nova we combine feedback from countless expeditions worldwide and research carried out by the UK's leading performance fabric manufacturers, with our own experience as tent-users, to produce a range that represents the cutting edge of tent design. Our constant search for innovation and commitment to quality, is highlighted by the continuing success of the Watershed Fabric Programme.

The Watershed Fabric Programme Initiated by Terra Nova in 1992, through our desire to develop performance materials for use in a new generation of lightweight tents, the results of this project can now be seen throughout the range. Watershed and Watershed2 flysheet fabrics, together with our Waterbloc groundsheets, are the most sophisticated materials currently available to lightweight tent manufacturers, and represent a major step forward in tent technology.

Customer Service All Terra Nova tents and bivis are made in our factory on the edge of the Peak National Park in Derbyshire, England, from where we also provide the support for our comprehensive lifetime guarantee. Our customer service department is staffed by outdoor enthusiasts just like you, who will give you help and advice, providing what we believe is the best after-sales care available. If you inadvertently damage your tent, we can repair it quickly, affordably and get it back to you in time for your next trip.

The Terra Nova Lifetime Guarantee All Terra Nova tents are guaranteed against defects in materials and workmanship. We will repair such defects free of charge or replace the product (at our discretion). This guarantee is in addition to your statutory rights. Damage which occurs due to accident, improper use or wear and tear, including degradation by ultra violet light, can be repaired or replaced at a reasonable cost.



Photo: Mikael Svensson



Photo: Andy Green, Alaskan Icefields



Photo: Ruaridh Pringle Photography

Essential knowledge

Terra Nova has two decades experience of making performance tents, which have been used in every corner of the earth.

Our continued research into new fabrics and designs and our commitment to quality, have made Terra Nova tents the choice of enthusiasts worldwide.



Pole Sleeves

The continuous mesh sleeves provide quick, easy and smooth pitching. Made from durable resin coated Terylene mesh, they optimise air circulation across the inner tent, minimise the overall weight, and provide a flexible but strong frame for the outer tent.

The Watershed Programme

The clearest indication of our dedication to development is the Watershed Programme. Initiated in 1992, it combines our expertise as tent makers with the latest fabric technology. Its principle aims are:

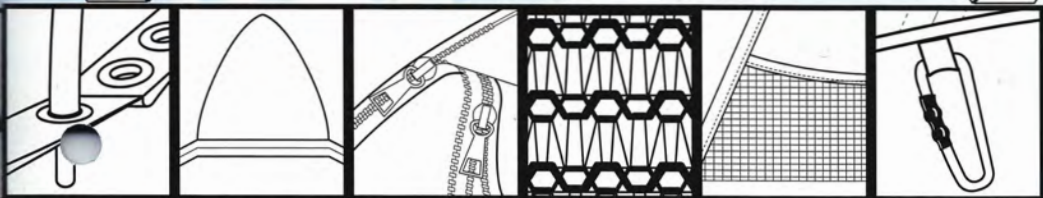
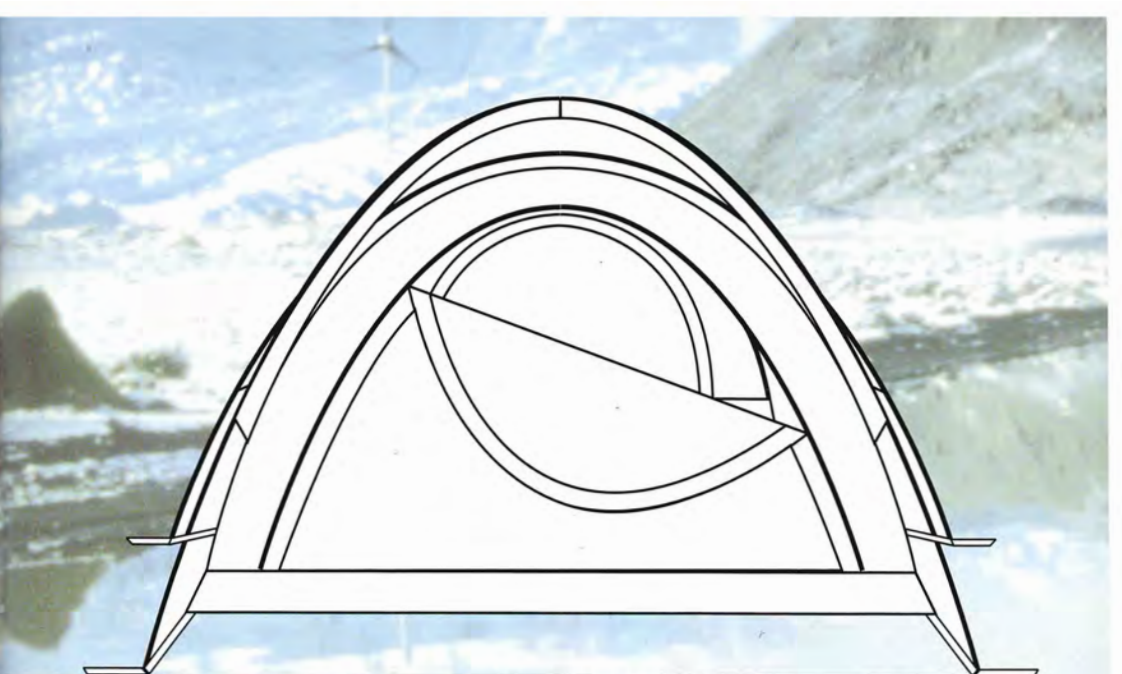
- To create a range of fabrics specifically engineered for the demands of performance tents.
- To utilise the latest technology to ensure continual innovation and maintain Terra Nova's position at the forefront of tent design.

Prior to 1992, tent makers had to adapt existing fabrics to their needs, with compromise as the inevitable outcome. With the introduction of Watershed in 1993, and later Watershed2 and Waterbloc, Terra Nova have revolutionised tent manufacture by developing materials especially suited to the unique demands of lightweight tents. The success of the programme can clearly be seen in the performance characteristics of our Watershed, Watershed2 and Waterbloc fabrics:

- Silicone Elastomer Coating
- Polyurethane Coating
- Taped Seam



Photo: Chris Bonington, Tibet



| | | | | | |
|---|---|--|---|--|--|
| <p>Tension Adjusters</p> <p>Three brass eyelets provide flexibility in pole tensioning to adjust for temperature and weather conditions.</p> | <p>Full "Bathtub" Floor</p> <p>All tent floors are fully seam-sealed and made from Waterbloc to provide a durable waterproof base.</p> | <p>Zips</p> <p>Strong but lightweight continuous chain zips with double sliders for maximum convenience are mounted in polyester/acrylic for smoothness of operation. The double zip doors offer versatility of ventilation and ease of access.</p> | <p>Insect Proof Netting</p> <p>All tents have zipped mesh doors of super-lightweight "No-see-um" netting, which allow excellent ventilation.</p> | <p>Internal Hangers and Pockets</p> <p>Internal hangers are provided for lamps and drying lines, while side wall mounted mesh pockets provide safe storage for small items. The bound internal seams also provide a hanging place for a Loft.</p> | <p>Shock-Cord Guy Points</p> <p>Made from 5mm multi-core rubber shock-cord and braided with a high tenacity nylon sheath.</p> |
|---|---|--|---|--|--|

Watershed The definitive high performance, lightweight flysheet fabric - the first such fabric to be coated with Silicone Elastomer on the outside and polyurethane on the inside:

Silicone Elastomer provides greater tear strength and resistance to UV degradation, with virtually no water absorption.

The Polyurethane coating on the inner surface adds a secondary waterproof layer, improves fabric flexibility and allows hot-air seam taping, provides a guaranteed waterproof flysheet.

A double ripstop weave provides additional tear-protection.

Watershed is used on all tents in the Lightweight Range.

Watershed2 The same coating technology combined with a heavier, smooth-weave base fabric, Watershed2 is the most durable and UV resistant lightweight tent fabric currently in use:

Silicone Elastomer for greater tear-strength, UV resistance and minimal water absorption.

Polyurethane coating on the inner surface to improve flexibility, add a secondary waterproof layer and accept hot-air seam tape, to provide a guaranteed waterproof flysheet.

Due to the inherent strength of its base fabric, we are able to make Watershed2 with a plain weave, which allows better coating adherence and means it's more waterproof for longer.

Heavyweight base fabric to increase UV resistance.

In tests carried out by Leeds University, Watershed2 had four times the tear strength of most standard fabrics and its UV resistance was the highest of any similar flysheet tested. Watershed2 is used on all the tents in the Endurance Range.

Waterbloc Introduced throughout our range last year, Waterbloc has been designed to provide a lightweight, durable and totally waterproof groundsheet even after extended use. It consistently maintains a hydrostatic head reading of over 7 metres, even when subjected to severe flex-testing, which would destroy weaker fabrics. We believe Waterbloc is the finest groundsheet fabric currently available.

Geodesic design The strength of a Terra Nova tent is derived from its geodesic structure. Geodesic designs use intersecting flexible poles to achieve the maximum internal volume, within an incredibly strong and lightweight frame. Through a series of crossover points and interlocking pole configurations, tension is spread evenly across the inner, providing the strongest possible frame on which to attach the flysheet. All our geodesic designs are smoothly contoured to shed rain, wind and snow. When covered by a guyed-out fly, our tents will provide shelter in weather that would destroy far heavier and more rigid structures.

Alloy poles All Terra Nova tents use custom made Easton 7075-E9 aluminium alloy poles, which are designed to our specifications. These poles are the highest quality available, with an ultimate tensile strength of 96,000psi. Rolled from flat stock which produces a more consistent grain pattern than extruded tube, the poles are then machined to integrate the invisible weld, and make them much stronger and more durable.

Nylon V Polyester Terra Nova tent fabrics are produced from high-tenacity (HT) nylon 6.6. After conducting extensive research to determine the best material from which to make our tent fabrics, we chose HT nylon because of its unique performance characteristics. Tested against other nylons and polyester, HT Nylon 6.6 proves superior in the following ways:

- better resistance to UV degradation after weathering (i.e. in everyday use)
- higher resistance to flex fatigue
- better tear resistance
- better abrasion resistance
- higher tear strength
- superior stretch recovery
- better bonding with waterproof coatings

We believe this makes our fabrics stronger, more waterproof and more UV resistant for longer.

Which tent?

To help you match your requirements with the most suitable tent, we have divided the range into three categories:

Lightweight range

The Lightweight Range is designed to meet the needs of backpackers, cycle-tourers and anyone for whom weight saving is a priority. All the tents in this category feature Watershed flysheets for high performance at the lowest possible weight.

Endurance range

The Endurance Range has been specifically developed to provide the strongest and most durable lightweight tents currently available. All the tents in this range have outers made from Watershed2, the most durable and UV resistant lightweight flysheet fabric yet produced.

High altitude

Specialist tents designed for high-altitude mountaineering. Featuring a single skin made from waterproof and breathable Goretex fabric, these tents have a minimal footprint, allowing pitching in limited spaces. They are only suitable for use in cold, dry conditions and need to be well ventilated.



Photo: Terra Nova Collection



Photo: Gerry Gore



Photo: Colin Read, Summit Tupilaq

UV light degradation Ultra Violet light (UV) degradation is one of the most damaging natural effects to which a tent may be exposed. UV rays attack the long molecular chains from which lightweight tent fabrics are formed and if enough of these chains are cut, the fabric will fail. The rate of failure is dependant on the inherent properties of the tent fabric and the level of exposure to UV, which in turn is affected by factors such as cloud cover, pollution, latitude and altitude.

Our research into UV degradation led us to develop Watershed2, specifically engineered to be the most UV resistant lightweight flysheet fabric currently available. It has much better UV resistance than other outer fabrics we examined, results confirmed in tests carried out by Du-Pont Laboratories, and its use will dramatically increase the life expectancy of our Endurance Range tents over that of other similar designs.

Fully seam sealed We guarantee our flysheets and groundsheets totally waterproof when they leave the factory. You don't have to laboriously seam-seal them, nor will the proofings give out the first time you use your tent. Our unique Watershed coatings mean we can hot-air tape every seam, giving you total protection from the elements and increasing the strength of your flysheet.

Inner first pitching We have long believed that inner pitching first has significant advantages over other tent designs, because it:

- creates more usable space through steep, tensioned sidewalls
- provides extra strength by linking the tensioned inner, poles and flysheet
- allows the inner to be used alone in warm, dry conditions
- requires minimum guying
- allows the inner to be moved once pitched, to optimise positioning
- is quicker and easier to pitch, especially in poor conditions
- virtually eliminates fabric flapping

All our inner tents are strong, light and highly breathable. This allows moisture vapour to pass easily through the fabric, providing a greater level of comfort. The fabrics are also treated to make them showerproof, protecting the inner when it's being pitched in the rain.

Seasons ratings

All of our Lightweight and Endurance tents can be used with confidence in a wide range of conditions, though each has been designed to perform best in specific situations. To help you select the correct tent, we also categorise each in terms of its suitability for use:

3 season tents

Suitable for upland use in good weather, but may require a sheltered site in moderately strong winds.

4 season backpacking

Suitable for year-round use in most conditions, with some snow-shedding ability, but requiring a sheltered site in high winds.

4 season mountain

Suitable for extended use in severe weather conditions, will withstand heavy snow-loading and strong winds.

A close encounter on the

Harding Icefield, August 1997



Photo: Andy Green, Alaskan Icefields

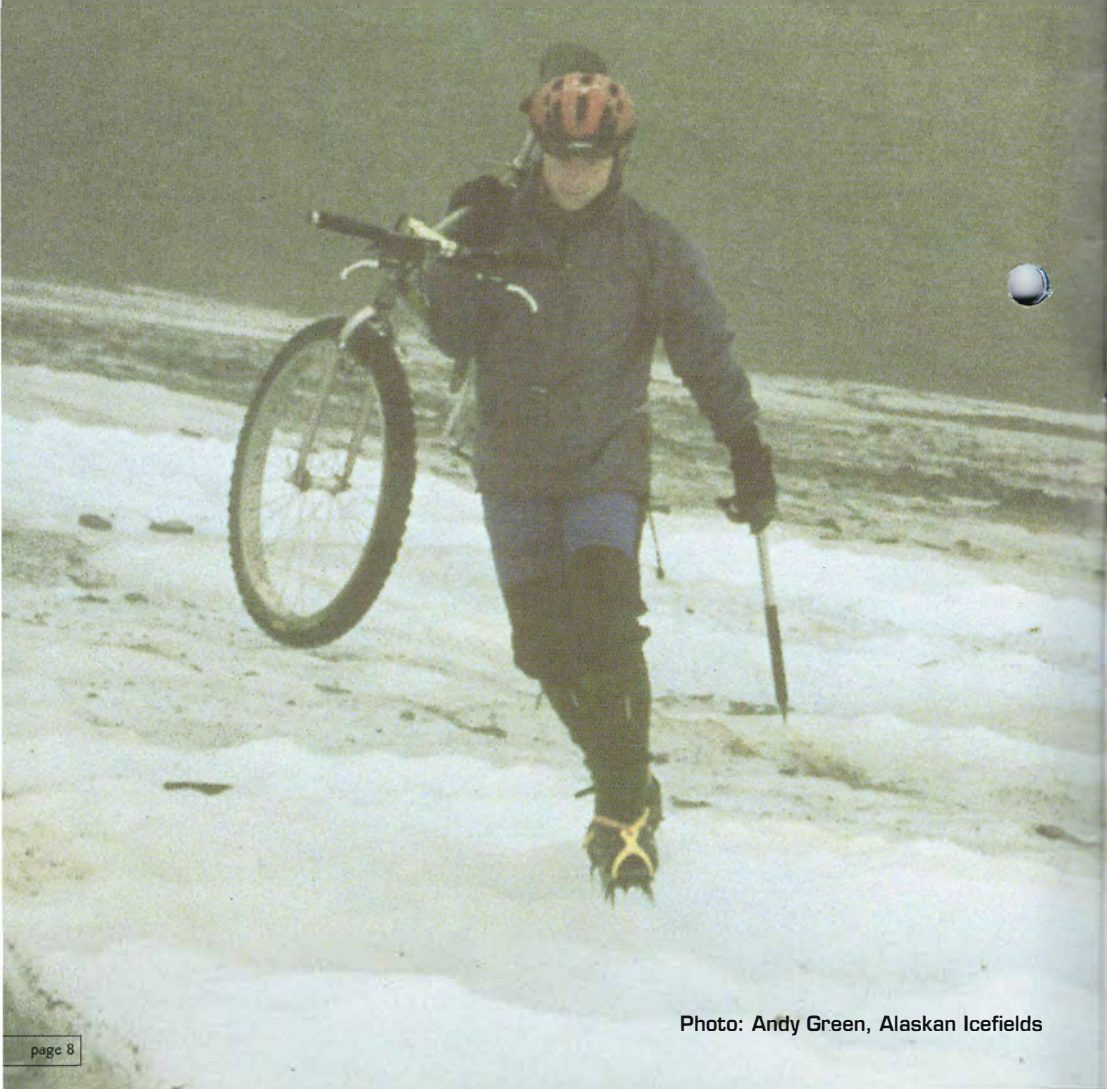


Photo: Andy Green, Alaskan Icefields

Alaskan Icefields



Photo: Andy Green, Alaskan Icefields



Photo: Andy Green, Alaskan Icefields



Photo: Andy Green, cycling in Alaska

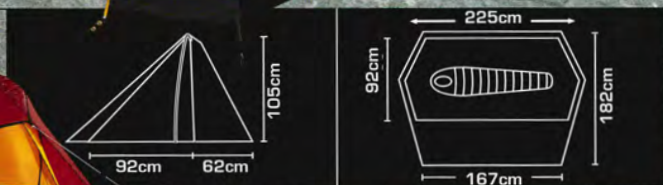
It was exactly what I'd been afraid of weeks before the trip. Walking along in the sunshine after a day on the icefield, everyone happy to be going back to camp for a comfortable night of warm drinks and food and down-bags. You can easily lose concentration and end up at the bottom of a crevasse, the costly price of a simple mistake, but you never really think it will happen.

I didn't try to get out, I couldn't believe it was happening. I just sat there, gently swinging my leg in thin air. There was nothing below me but a long icy fall. I wasn't sure how long, but it could have been 2 or 200 feet. Two of the others grabbed my arms and quickly pulled me out, risking their lives as well as mine, and I brushed myself down and we exchanged a bit of nervous laughter. Before my mind could catch up, we were back on the move, pushing on to finish before darkness fell.

As we came off the glacier for the night, I realised I'd been closer to death than ever before. A crevasse grinned at me, and I resolved to keep my fears inside until after a brew. There wasn't much point in sitting and moaning about it to everybody else. It's all done. Concentrate harder next time.

I slept badly that night.

Solar



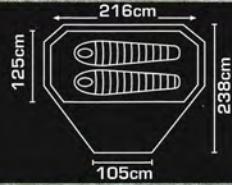
The smallest and lightest tent in the range, the Solar offers an unrivalled space to weight ratio. Ideal for mountain marathons, cycle touring and backpacking, the Solar has good headroom and a large porch area. It is easy to pitch and provides good stability.

Solar technical specifications

| | |
|----------------|---|
| Outer Tent: | Watershed Ripstop Nylon (fully taped seams) |
| Inner Tent: | Lightweight Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Pole: | 1x Easton 7075-E9 aluminium alloy (8.5mm) |
| Packed size: | 13cm x 44cm |
| Weight: | 1.95kg |
| Persons: | 1-2 |
| Season Rating: | 3 Season backpacking |
| User Range: | Minimalist backpacking, cycle touring, mountain marathons |



Solar 2



The Solar 2 is a genuine ultra lightweight two person tent. The large floor area and twin pole construction create a huge amount of headroom and living space, while the generous porch make the Solar 2 ideal for extended use. A stable two pole configuration and strong 9.65mm poles allow the Solar 2 to be used for high altitude trekking or sheltered winter use.

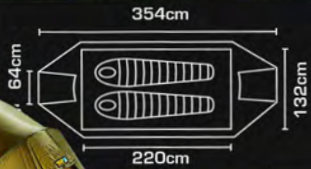
Solar 2 technical specifications

| | |
|----------------|--|
| Outer Tent: | Watershed Ripstop Nylon (fully taped seams) |
| Inner Tent: | Lightweight Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 2x Easton 7075-E9 aluminium alloy (9.65mm) |
| Packed Size: | 14cm x 56cm |
| Weight: | 2.55kg |
| Persons: | 2 |
| Season Rating: | 4 Season backpacking |
| User Range: | Lightweight backpacking, cycle touring, trekking |

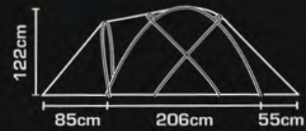
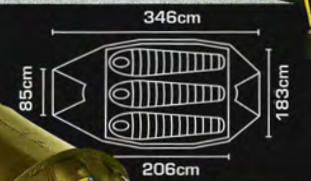
lightweight range



Ultra Quasar



Ultra Hyperspace



For mountaineers and serious backpackers, this lightweight version of the Quasar is the ideal choice, providing reliable 4 season shelter at the minimum weight.

Ultra Quasar technical specifications

| | |
|----------------|---|
| Outer tent: | Watershed Ripstop Nylon (fully taped seams) |
| Inner tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 4x Easton 7075-E9 aluminium alloy (9.65mm) |
| Packed Size: | 18cm x 56cm |
| Weight: | 3.6kg |
| Persons: | 2 |
| Season rating: | 4 Season Mountain |
| User range: | Mountaineering, year-round backpacking |
| Options: | Snow Valances (see page 31) Quasar ETC flysheet (Watershed 2 fabric only) and porch pole (see page 31) |

Incorporating all the features of this proven base camp design, the Ultra Hyperspace utilises Watershed fabric and lighter weight pole-sleeves, to achieve its lower weight. A versatile tent that can be comfortably backpacked by three people, but with plenty of room for extended use.

Ultra Hyperspace technical specifications

| | |
|----------------|--|
| Outer Tent: | Watershed Ripstop Nylon (fully taped seams) |
| Inner Tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 4 x Easton 7075-E9 aluminium alloy (9.65mm) 1x Easton 7075-E9 aluminium alloy porch pole (8.5mm) |
| Packed Size: | 18cm x 74cm |
| Weight: | 4.4kg |
| Persons: | 3 |
| Season Rating: | 4 Season Mountain |
| User Range: | Backpacking, mountaineering, basecamp |
| Options: | Snow Valances (see page 31) |

Nord Cap and the ca



Photo: A. Straw/4. Snekker, San Pedro de Atacama



Photo: Andrew Strain, Solar de Surire

Thirty seven thousand two hundred and four kilometres; ten chains, thirty tyres and 66 punctures, in forty-four months from Capetown, South Africa to Nord Cap, Norway. Another leg of our world journey by bicycle

is complete. It was a strange feeling to arrive, although there was no fanfare, inside we felt the satisfaction to have made the journey.

In the last 200 kilometres I caught a cold and had to spend a day in the tent to get over the worst of it. Emi took advantage of the carpet of blueberries around us. Unfortunately she had sore calf muscles for days after from crouching down to pick them. The berries did taste great though.

There were also the long climbs over the 350 metre high treeless cape to conquer – it seemed we weren't meant to have it easy, even to the last kilometres. The weather was on our side though, it had been the best summer for years.



fe at the end of the world



Photo: Ben Stephenson

Steve Seal & Emiko Sakaguchi - cycling around the world since 1989

Having arrived, we sat in the cafe at the end of the world and it seemed everyone was coming. A group of "Brits" from the Land Rover factory had arrived. They were on a 50 day, 50 country challenge in aid of UNICEF. They had a group of 4 Land Rovers and lots of energy to go all the way to Capetown.

The fog eventually moved in, obscuring the view over the sea with the fishing boats on the calm water's surface. We camped behind the car park, out of the wind on a rocky spot amongst the rubbish, thrown there by people who don't see the beauty of a clean environment. It would have been interesting to stay and see the Arctic winter or go with sled dogs toNaaa. We'd miss our bikes too much.

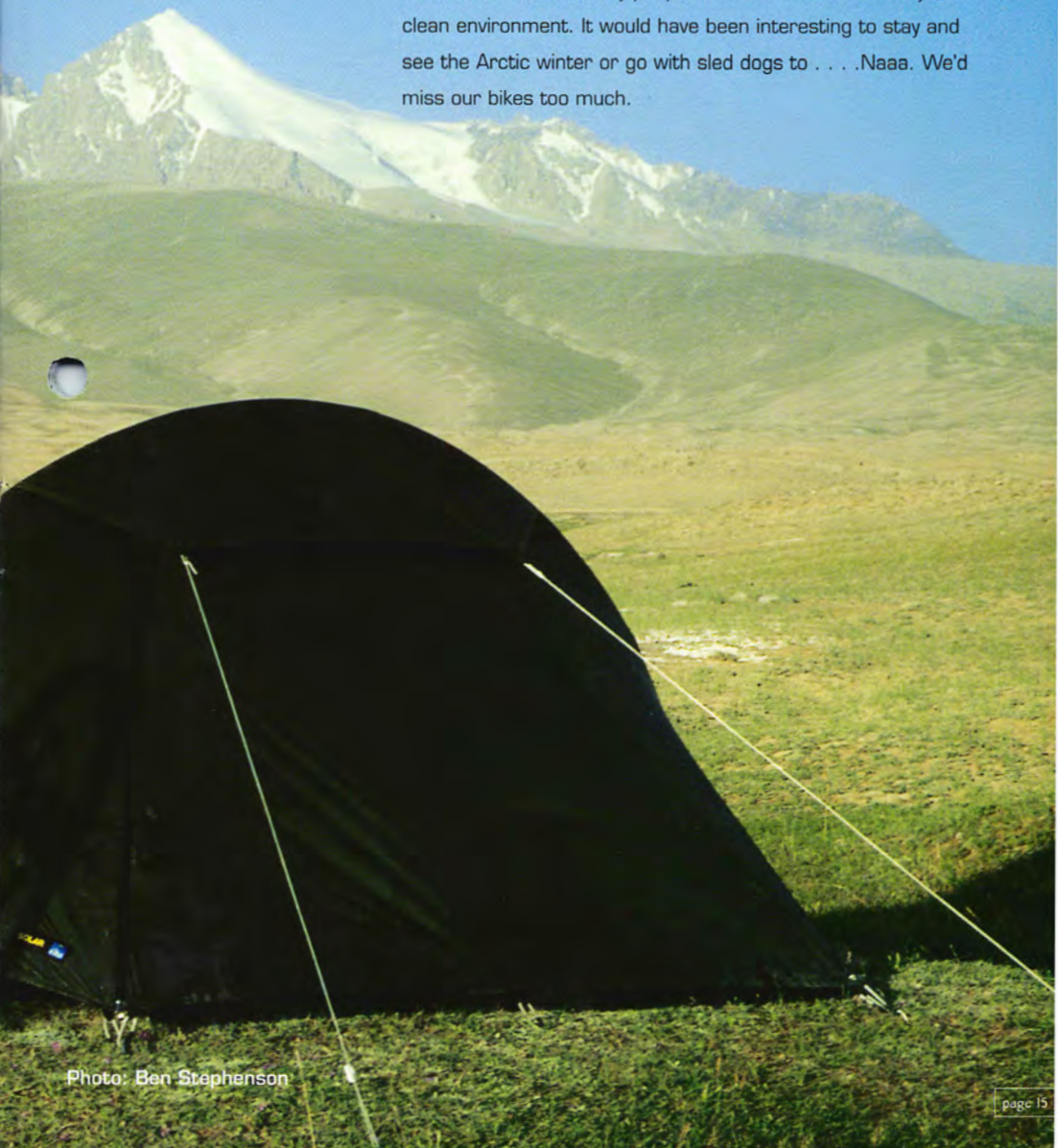
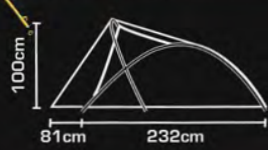
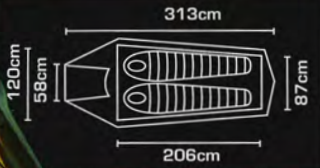


Photo: Ben Stephenson

Voyager



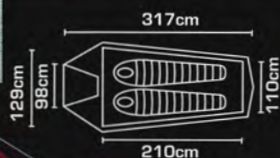
The classic 3 pole design of the Voyager has made it a favourite with trekkers and backpackers worldwide. It has a strong and stable shape requiring minimum guying and a Watershed2 flysheet, which gives excellent durability.

Voyager technical specifications

| | |
|----------------|--|
| Outer Tent: | Watershed 2 Nylon (fully taped seams) |
| Inner Tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 3 x Easton 7075-E9 aluminium alloy (8.5mm) |
| Packed Size: | 14cm x 56cm |
| Weight: | 2.8kg |
| Persons: | 2 |
| Season Rating: | 4 Season Backpacking |
| User Range: | Backpacking, trekking, youth-groups |



Trisar Convertible



This versatile tent made its appearance in last year's catalogue, as the successor to the popular Trisar, and was an immediate success. The Convertible Pole System allows you to use just 3 poles when weight saving is your priority, or add the fourth pole for use all year-round. With greater internal volume, 60% more porch space than before and genuine 4 season performance, the Trisar Convertible is a tent for all seasons.

Trisar Convertible technical specifications

| | |
|----------------|--|
| Outer Tent: | Watershed 2 Nylon (fully taped seams) |
| Inner Tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 4 x Easton 7075-E9 aluminium alloy (8.5mm) |
| Packed Size: | 16cm x 56cm |
| Weight: | 3.3kg (4 poles) - 3.1kg (3 poles) |
| Persons: | 2 |
| Season Rating: | 4 Season Backpacking |
| User Range: | Trekking, backpacking |

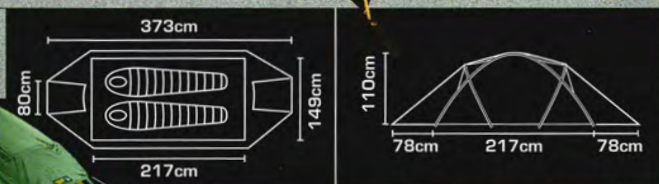
endurance range



Quasar



Super Quasar





As the definitive 2 person mountain tent, the exceptionally strong geodesic design of the Quasar has withstood some of the harshest conditions on earth for over two decades. Watershed2 and Waterbloc fabrics have been used to enhance its capabilities and ensure that the Quasar maintains its position at the forefront of mountain tent technology.

Quasar technical specifications

| | |
|----------------|---|
| Outer Tent: | Watershed 2 Nylon (fully taped seams) |
| Inner Tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 4 x Easton 7075-E9 aluminium alloy (9.65mm) |
| Packed Size: | 18cm x 56cm |
| Weight: | 4.1kg |
| Persons: | 2 |
| Season Rating: | 4 Season Mountain |
| User Range: | Mountaineering, expeditions, year-round camping |
| Options: | Snow Valances (see page 31) Quasar ETC flysheet and porch pole (see page 31) |

Incorporating over two decades experience of high performance tent design, the Super Quasar is arguably the best 2-3 person expedition tent available. The unique pole geometry creates maximum internal space and provides a sleek profile, which sheds wind and snow with ease.

Super Quasar technical specifications

| | |
|----------------|---|
| Outer Tent: | Watershed 2 Nylon (fully taped seams) |
| Inner Tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 4 x Easton 7075-E9 aluminium alloy (9.65mm) |
| Packed Size: | 20cm x 60cm |
| Weight: | 4.4kg |
| Persons: | 2-3 |
| Season Rating: | 4 Season Mountain |
| User Range: | Mountaineering, expeditions |
| Options: | Snow Valances (see page 31) |

Hyperspace



A familiar site on expedition basecamps around the world, but equally at home as a reliable family shelter, the Hyperspace offers a perfect blend of strength, space and weight. It can sleep three in comfort and has twin entrances for easy storage and access.

Hyperspace technical specifications

| | |
|----------------|---|
| Outer Tent: | Watershed 2 Nylon (fully taped seams) |
| Inner Tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 4 x Easton 7075-E9 aluminium alloy (9.65mm) 1 x Easton 7075-E9 aluminium alloy (8.5mm) |
| Packed Size: | 18cm x 74cm |
| Weight: | 5.0kg |
| Persons: | 3 |
| Season Rating: | 4 Season Mountain |
| User Range: | Mountaineering, base camp, family, expeditions |
| Options: | Snow Valances (see page 31) |



Terra Firma



A proven basecamp shelter on numerous Himalayan and Polar expeditions, the Terra Firma, with its vast internal space, also lends itself to year round family use. The two porches offer good storage space and easy access. The tent may be split between four on backpacking trips.

Terra Firma technical specifications

| | |
|----------------|--|
| Outer Tent: | Watershed 2 Nylon (fully taped seams) |
| Inner Tent: | Breathable Ripstop Nylon |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 4 x Easton 7075-E9 aluminium alloy (11mm) 2 x Easton 7075-E9 aluminium alloy (9.65mm) |
| Packed Size: | 22cm x 74cm |
| Weight: | 7.3kg |
| Persons: | 4 |
| Season Rating: | 4 Season Mountain |
| User Range: | Mountaineering, base camp, family, expeditions |
| Options: | Snow Valances (see page 31) |

Victor Saunders and I had originally planned to climb as a pair on Sepu Kangri, a superb

unclimbed peak of 6950 metres in Tibet, but then Elliot Robertson came along. He and Charlie Clarke had made an exploratory journey into the east side of the mountain using a little Voyager tent, which they had found ideal for lightweight travel. Elliot was desperate to get onto the climb and, although he had limited mountain experience, he is a good steady guy, so Victor and I invited him along - and this is where the Quasar came in.

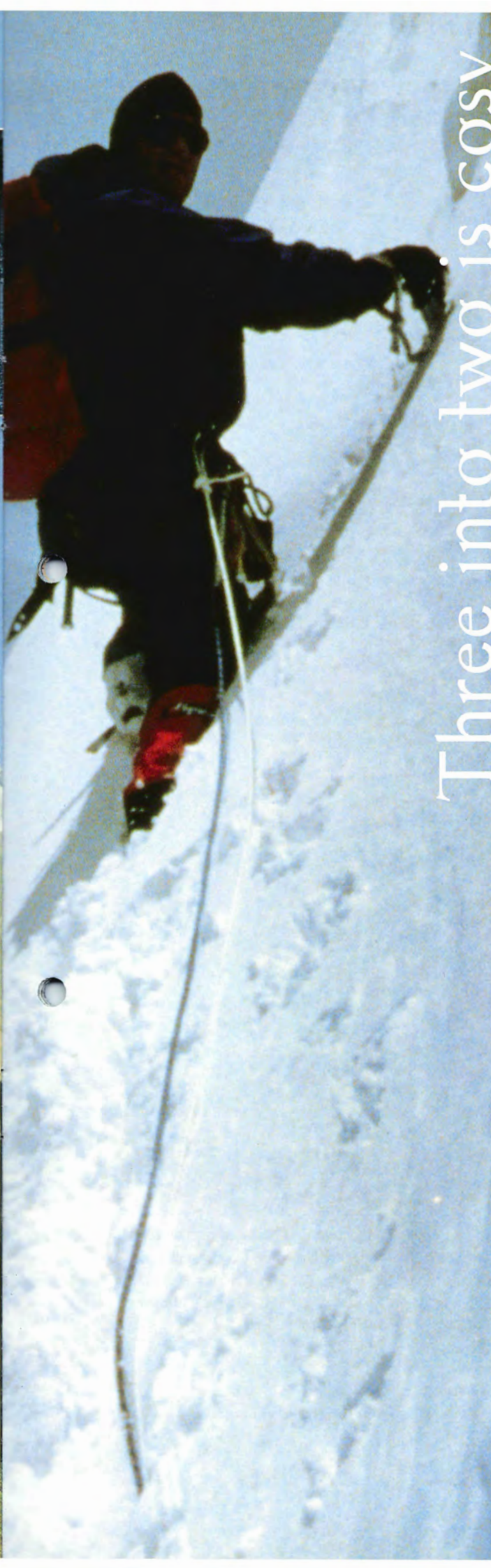
Terra Nova had made to our design; a super lightweight tent based on the Gemini, but this really was a two-man tent at a squeeze, ideal for a lightweight push. The beauty of the Quasar is that it is a generous two-man tent and three can fit into it very cosily. So armed with our Quasar, we set out on our bid for the summit. There were five of us in total, Graham Little and Scott Muir using one of the experimental two man tents.

Sepu Kangri is a big complex mountain. We had tried it the previous year, making a direct assault up a steep rib, leading high onto the north-west ridge of the mountain. We would probably have succeeded if the weather hadn't been so consistently bad. In the autumn of 1998 we decided to outflank the difficulties, entailing a long and slightly hazardous trek through icefalls, and into a Western Cwm, that rivalled the more famous one on Everest. It had crevasses like moats, a superb array of flanking peaks and a view emphasising the vastness of the Tibetan plateau.

It took us two days to reach 6530 metres, just 400 metres below the summit and we really seemed to have it within our grasp. But Sepu Kangri has a mind of its own. It is not named the 'White Sky God' for nothing. It ignored the good weather forecast we had received by satellite from the Met Office in England and the next morning gave us clouds and a huge dump of snow. We sat it out for two days and once again the Quasar came into its own.

On the third morning it was still snowing and worried about being trapped high on Sepu Kangri, we retreated, hoping to return for another attempt. We had a second attempt when Scott and Victor got within 150 metres of the summit, before a blizzard turned them back. The White Sky God however gave us one consolation, allowing Graham to climb The Turquoise Flower, a subsidiary peak, named after the Sky God's daughter.

They left the Quasar at Camp 2 at 6170 metres, hoping to return for a third attempt. This was not to be. The weather never recovered and so the Quasar is still sitting there, probably under a dome of snow, and yet its structure is so robust that I shouldn't be surprised if it isn't still intact for years to come, to offer some other party its shelter.



Three into two is cosy

Life in a Quasar on Sepu Kangri

Chris Bonington - January 1999



Photo: Chris Bonington, Sepu Kangri



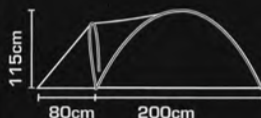
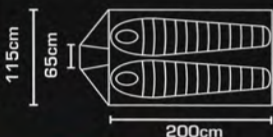
Photo: Chris Bonington, Sepu Kangri



Photo: Chris Bonington, Sepu Kangri

New Gemini

Please note that the New Gemini has been specifically designed for use in cold, dry environments such as those found in high mountain and polar regions. Its performance will be severely inhibited if used in other conditions.



A new version of this legendary high altitude tent. The original Gemini has been used on countless expeditions worldwide and has now been totally redesigned, with a new pole-layout, extra tunnel-door and better ventilation. With this combination it has reached groundbreaking levels of performance. Extensively tested on Chris Bonington's recent Sepu Kangri Expedition.

New Gemini technical specifications

| | |
|----------------|--|
| Shell: | Gore-Tex Nexus (fully taped seams) |
| Groundsheet: | Waterbloc Nylon (fully taped seams) |
| Poles: | 2 x Easton 7075-E9 aluminium alloy (9.65mm) 1 x Easton 7075-E9 porch pole (8.5mm) |
| Packed Size: | 14cm x 50cm |
| Weight: | 2.9kg |
| Persons: | 2 |
| Season Rating: | High Altitude |
| User Range: | Mountain and Polar expeditions |

high altitude range

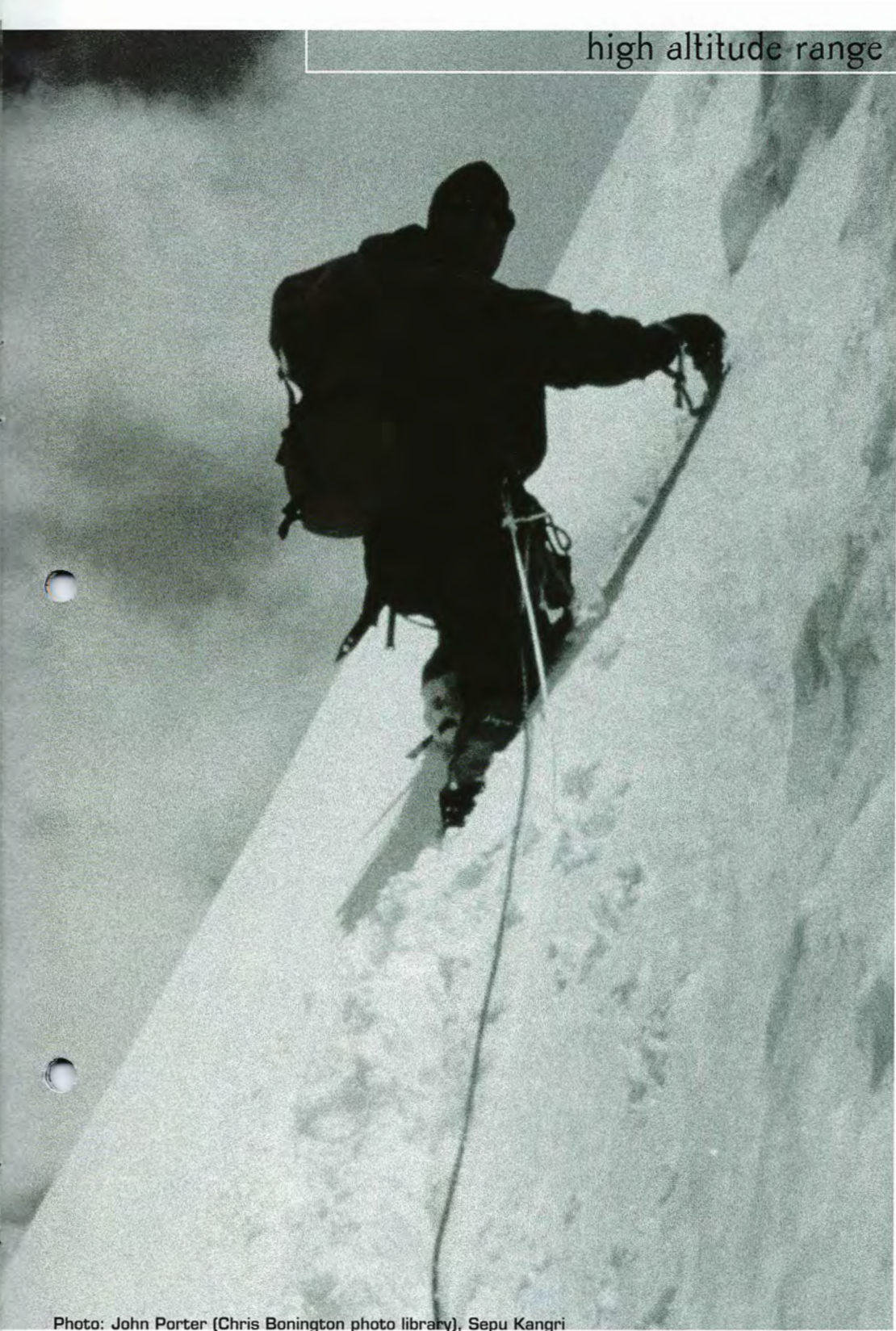


Photo: John Porter (Chris Bonington photo library), Sepu Kangri

Photo: Scott Muir



Photo: Bill O'Connor, Monte Rosa traverse

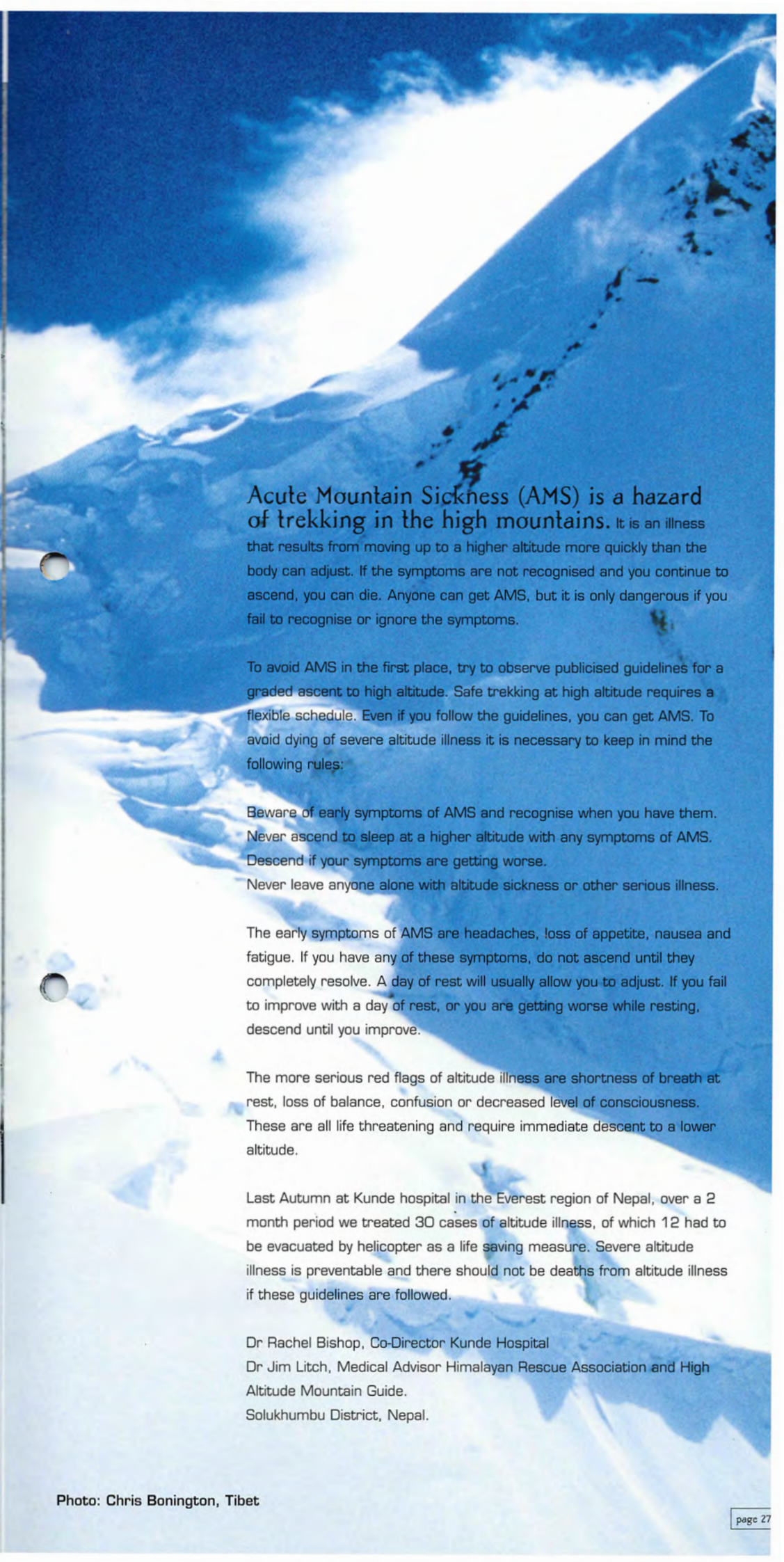


Photo: Jabin Lewycky, Kilimanjaro 9A



Essential information on altitude sickness





Acute Mountain Sickness (AMS) is a hazard of trekking in the high mountains. It is an illness that results from moving up to a higher altitude more quickly than the body can adjust. If the symptoms are not recognised and you continue to ascend, you can die. Anyone can get AMS, but it is only dangerous if you fail to recognise or ignore the symptoms.

To avoid AMS in the first place, try to observe publicised guidelines for a graded ascent to high altitude. Safe trekking at high altitude requires a flexible schedule. Even if you follow the guidelines, you can get AMS. To avoid dying of severe altitude illness it is necessary to keep in mind the following rules:

Beware of early symptoms of AMS and recognise when you have them.
Never ascend to sleep at a higher altitude with any symptoms of AMS.
Descend if your symptoms are getting worse.
Never leave anyone alone with altitude sickness or other serious illness.

The early symptoms of AMS are headaches, loss of appetite, nausea and fatigue. If you have any of these symptoms, do not ascend until they completely resolve. A day of rest will usually allow you to adjust. If you fail to improve with a day of rest, or you are getting worse while resting, descend until you improve.

The more serious red flags of altitude illness are shortness of breath at rest, loss of balance, confusion or decreased level of consciousness. These are all life threatening and require immediate descent to a lower altitude.

Last Autumn at Kunde hospital in the Everest region of Nepal, over a 2 month period we treated 30 cases of altitude illness, of which 12 had to be evacuated by helicopter as a life saving measure. Severe altitude illness is preventable and there should not be deaths from altitude illness if these guidelines are followed.

Dr Rachel Bishop, Co-Director Kunde Hospital
Dr Jim Litch, Medical Advisor Himalayan Rescue Association and High Altitude Mountain Guide.
Solukhumbu District, Nepal.

Bothy Bags



2 Man Bothy:
20 x 12.5cm
300gms.

4 Man Bothy:
22 x 12.5cm
400gms.



We designed the Bothy Bags in response to the need for inexpensive, lightweight shelters to provide basic protection from the elements. They're made from Ripstop nylon and are windproof, highly water-resistant and very strong. Increasingly used by mountain rescue teams, outdoor centres and youth groups as emergency shelters, they can also provide a simple shelter for a lunch stop when the weather turns wild.

In use, pull the Bothy over your head and sit down. The waterproof seat keeps you dry, the integral stuffsac turns into a mesh-covered vent and when you lean back the fabric will pull tight, to form a warm and weatherproof shell.

Creates a warm internal microclimate.
Durable waterproof seats.
Ideal for lunch stops.
Manufactured in water-resistant ripstop nylon.
Used by mountain rescue teams and mountain guides world-wide.
Two and four person models available.

Bivi Bags



Terra Nova bivi-bags are constructed from a unique fabric, manufactured exclusively for our use. This fabric comprises a 3 layer laminate combining High Tenacity Du-Pont ripstop-nylon, a Porelle micro-porous membrane and a protective backing scrim of warp-knitted nylon.

The result? A lightweight, highly breathable and waterproof bivi-fabric, which offers improved durability and delivers high performance in a wide range of conditions.

Our bivi range comprises 4 models, each with a different range of features, enabling you to select the bag best suited to your requirements:

Titan

Titan: 225 x 88cm,
750gms Black.



An alpine or expedition bag for climbers and mountaineers. It features an 'L' zip to aid access and provide entry points for ropes and slings, large gauge zips for strength and reliability, and the oversized hood makes it easier to manoeuvre inside. All zips are protected by storm flaps with velcro closures, to keep out spindrift and to enable ventilation in the worst conditions. Fully taped seams.

Discovery

225 x 88cm, 700gms
Red upper, black waterbloc base.



An ideal choice for someone seeking top performance at an entry level price, the Discovery features a full horizontal zip with rain flap, half moon foot and generous hood for storage. Fully taped seams with a highly abrasion resistant Waterbloc groundsheet.

Apollo

225 x 88cm, 650gms
Black



For all round use the Apollo is the perfect choice. Manufactured entirely from our breathable waterproof bivi fabric, it is ideally suited to extended use. Features are similar to the Discovery but with the addition of a mosquito net.

Jupiter

225 x 88 x 45cm,
850gms Red upper, black waterbloc base



The Jupiter has been designed for minimalist backpackers and has a single Easton aluminium 7075-E9 pre-curved pole to give extra headroom. Features include a 'Crocodile-mouth' door for easy access, integral storm flap and an internal mesh door to keep bugs out. The single pole allows the Jupiter to be well ventilated, making it the most suitable bag for use in warmer, more humid conditions. Fully taped seams and Waterbloc groundsheet.



Groundsheet Protectors



The Loft



Emergency Repair Kit

Although we are confident that Waterbloc will outperform any similar groundsheet fabric, we recommend the use of a groundsheet protector, when possible, to protect your tent from damage caused by sharp objects. We produce protection sheets for each model in the range:

- Solar - 0.3kg
- Solar2 - 0.4kg
- Voyager - 0.35kg
- Trisar Convertible - 0.4kg
- Ultra Quasar, Quasar - 0.4kg
- Super Quasar - 0.5kg
- Ultra Hyperspace,
- Hyperspace - 0.65kg
- Terra Firma - 0.75kg

More suitable for the larger tents in our range, The Loft is an ideal way of increasing storage space. Designed to clip to the binding near the apex of the inner tent, it is quick and easy to fit and offers 2 storage pockets and a torch loop. (One size).

The ERK contains patches of flysheet and groundsheet fabric, rubber-solution glue to provide a waterproof seal, a pole repair tube and two gylines with sliders.



tent accessories



S.O.S. Stakes



Zip Lube & Tent Cleaner



Spare Pegs

These pegs are designed for use on snow, sand or loose soil where the increased depth and width provide a more stable anchor point than a standard peg. There are ten in a pack.

Zip Lube is a silicone-based spray for lubricating tent zips and protecting Easton poles.

For use on all our flysheets and inners, Terra Nova Cleaner will clean the fabric without impairing breathability or waterproofness.

This pack contains 6 of our strong, lightweight, custom-made 7001-T6 Aluminium Alloy Pegs.

Factory fitted Snow Valances

When long periods of exposure to extreme winter conditions are expected, consider adding a snow valance to your tent. These can be fitted to certain models are our factory.

In such conditions, "double poling" will add extra strength. Where possible try to pitch the tent where some natural shelter is offered, or build a snow wall for protection.

The Quasar is also available as the Quasar ETC with an extended Flysheet and Porch Pole.



customer service

Experienced advice All our customer services staff have considerable experience of Terra Nova products in use. If you need any help or advice about our products, please phone our Customer Services Line 01773 830100.

Lifetime Guarantee support In support of our Lifetime Product Guarantee, we provide a full factory based repairs service. If you believe your tent has failed, even after extended use, return it to us in a clean and dry condition, for our examination. Repairs covered under the warranty will be carried out free of charge. We will endeavour to complete all repairs promptly and return the tent, post paid, within 15 working days of receipt.

Our dedication to designing and producing the best performance tents extends to our after-sales care.

Based at our factory on the edge of the Peak National Park, our customer services department is staffed by outdoor enthusiasts.

Customer services department

01773 830100



Product repairs We also offer a full repairs service to cope with the damage that wear and tear and regular use can cause. If you need repair-work to be carried out, return your tent to us in a clean and dry condition. Our customer services staff will examine the damage and send you a quote for the necessary repairs. We will endeavour to return your repaired tent to you within 15 working days of receiving your go-ahead.

Replacement Parts Terra Nova maintains a comprehensive stock of spare parts for all our tents, including recently discontinued models. Please contact your local retailer, or our customer services department for details.

Terra Nova Stockists Terra Nova products are available from specialist outdoor retailers throughout the world. If you have difficulty locating any of our products, call our customer service department for details of your local stockist: 01773 830100.



| Model | Usage | Sleeps | KG | Packed Size (cm) |
|--------------------|---|--------|------------|------------------|
| Solar | 3 Season backpacking, Cycle Touring Mountain Marathons | 1-2 | 1.95 | 13 x 44 |
| Solar 2 | 4 Season backpacking Lightweight backpacking, Cycle Touring | 2 | 2.55 | 15 x 56 |
| Ultra Quasar | 4 Season Mountain Mountain backpacking | 2 | 3.6 | 18 x 56 |
| Ultra Hyperspace | 4 Season Mountain Mountain backpacking, Base Camp | 3 | 4.4 | 18 x 74 |
| Voyager | 4 Season backpacking Backpacking Trekking | 2 | 2.8 | 14 x 56 |
| Trisar Convertible | 4 Season backpacking Trekking Backpacking | 2 | 3.1 3.3 | 16 x 56 |
| Quasar | 4 Season Mountain Mountaineering Expeditions | 2 | 4.1 | 18 x 56 |
| Super Quasar | 4 Season Mountain Mountaineering expeditions | 2-3 | 4.4 | 20 x 60 |
| Hyperspace | 4 Season Mountain Mountaineering, Base Camp, Group expeditions | 3 | 5.0 | 18 x 74 |
| Terra Firma | 4 Season Mountain Mountaineering, Base Camp, Group expeditions | 4 | 7.3 | 22 x 74 |
| Gemini | High Altitude | 2 | 2.9 | 14 x 50 |

tent specifications

| Interior (cm) L x W x H | Porch (cm) L x W | Poles | Pegs | Guy points | Materials |
|----------------------------------|--|-------|------|---------------|---|
| 225 x 92 x 105 | 204 x 62 Tapers to 167 | 1 | 15 | 5 | Watershed Flysheet Lightweight Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 217 x 125 x 98 | 205 x 80 Tapers to 105 | 2 | 15 | 5 | Watershed Flysheet Lightweight Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 220 x 132 x 104 | 67 x 154 Tapers to 64 | 4 | 18 | 6 | Watershed Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 206 x 183 x 122 | 55 x 172 and 85 x 172 Tapers to 85 | 4 + 1 | 18 | 6 | Watershed Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 206 x 120 x 100 Tapers to 87 | 81 x 125 Tapers to 58 | 3 | 11 | 2 | Watershed 2 Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 210 x 129 x 110 Tapers to 110 | 90 x 135 Tapers to 98 | 3 + 1 | 14 | 5 | Watershed 2 Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 220 x 132 x 104 | 67 x 154 Tapers to 64 | 4 | 18 | 6 | Watershed 2 Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 217 x 149 x 110 | 78 x 142 Tapers to 80 | 4 | 18 | 6 | Watershed 2 Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 206 x 183 x 122 | 55 x 172 and 85 x 172 Tapers to 85 | 4 + 1 | 18 | 6 | Watershed 2 Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 218 x 200 x 147 | 125 x 215 Tapers to 75 | 4 + 2 | 22 | 10 | Watershed 2 Flysheet Ripstop Nylon Inner Waterbloc Coated Nylon Groundsheet |
| 200 x 115 x 115 | 80 x 115 Tapers to 65 | 3 | 10 | 4 | Gore-Tex Shell Waterbloc Coated Nylon Groundsheet |

All flysheets (except Gemini)
are available in Red or Green



Worldwide Agents & Distributors

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A-6020 Innsbruck
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outdoor@tirol.com

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Terra Nova retailer

T E R R A



N O V A
T E R R A

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In the interests of continuing design development we reserve the right to change the specifications quoted in this catalogue.

Colours are as accurate as the printing process will allow.