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#50

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DYSON SPHERE



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**CHARLES PELLEGRINO AND
GEORGE ZEBROWSKI**

Star Trek: TNG Dyson Sphere

The Shape of Heaven

Tonight CAPTAIN Picard came back again to his mother's old admonition: "Be careful what you wish for, Jean-Luc. You may get it."

Sitting in his ready room, he again played the record of the Enterprise's brief first passage through the Dyson Sphere. He had played it so many times now that his mind was numbed by it, numbed by what a later computer analysis of that scan had revealed. He had believed the Sphere's interior to be completely lifeless, but a detailed

examination of the data by newer and more advanced computers had shown a variety - a nearly infinite variety, Picard supposed-of plants and vegetation.

But what they had at first concluded remained true: The Dyson Sphere had seemingly been abandoned by whatever life forms had constructed it. The later analysis had reveled no signs of higher life forms, of intelligent life.

Picard thought he knew every river, every stream, every wrinkle in the world's topography, but he understood that the sphere's size was as every bit as deceiving as it was overpowering, and that for all he thought he knew, there was

infinitely more he did not know. The only objects the ships recorders and the later computer analysis might possibly have missed were a couple of twenty-mile long elephants. What had to be a braided stream was really a river wider than the earth and descending more than two hundred million kilometers from its head waters; gazing across whole light minutes of land and sea could draw even the most seasoned explorers into moments of madness.

Picard closed the record of the earlier passage through the Dyson Sphere and opened his captain's log to review the most recent entry.

CAPTAIN'S LOG, STARSHIP

ENTERPRISE

Stardate: 47321.6

More than a year has passed since we found Montgomery Scott's ship, the *Jenolen*, crashed on the outer hull of the Dyson Sphere. More than a year, during which bureaucratic procedure delayed my plans for a return to the Sphere.

We cannot go in until I have assembled my team of Federation-qualified archaeologists. I want scholars who are also efficient excavators-which means calling on the assistance of Hortas. They

can move through rock as effortlessly as a man walks through air. Unfortunately, they are as stubborn as they are efficient-which has meant more bureaucratic delays.

Two science vessels met us at the end of our first encounter, met us near the Great Wall as we were departing, but the Federation had restricted their exploration of the Sphere entirely to surface mapping and long-range subspace scans. They were under orders not even to try entering Dyson.

Our previous method of entering and exiting the artifact had actually required the destruction of a vessel. The Jenolen

held the door to Dyson open while we, in the Enterprise, just barely escaped, having no choice but to fire upon and destroy the vessel blocking our path. We found no obvious way of triggering the exit lock from the inside, and once triggered from outside, a vessel would be hauled in by automatic tractor beams, and the door would close.

Picard closed the log and rubbed at his forehead. He needed a break, a respite from Dyson's vastness, even if it was only a few minutes' escape to a cup of hot tea. Picard heard his mother's voice in his mind once more: Be careful what you wish for, Jean-Luc. You may get it.

He smiled to himself as he realized he was a latter-day Spyridon Marinatos. The legendary archaeologist would have appreciated Yvette Picard's warning, when during the summer of 1967 he tunneled into the lost city of Thera, making the discovery of his dreams, and realizing in that same instant that more than his entire lifetime would be required to excavate it. The city was buried under sixty meters of volcanic tephra, and it spread more than two kilometers wide.

Yet for all its overwhelming size, and for all of Spyridon Marinatos's dismay, Thera could easily have been flung into a comer and never found again, had it

been situated near one of the "little" doorways that led into Dyson.

The Sphere was dead, of course. Every analyst had agreed on that much: Dyson was a ghost town built to psychopathic proportion, which gave the captain his long-wished-for kinship with Marinatos. He was, at last, being assigned his own archaeological expedition; but as he remembered how Marinatos had fretted over needing more than his own lifetime to discover and catalogue the artifacts of an extinct civilization, Picard wondered what his Greek predecessor would have thought of a ruin whose exploration might require more than ten billion lifetimes.

Be careful what you wish for-

Now, the Enterprise was approaching "the Great Wall of Dyson," about one hundred light years distant from the Sphere. It was a wall of stars-an actual wall, beyond which no stars at all could be found. No planets. No comets. No meteoroids. Nothing except...

Picard shivered, recalling his now prevailing, probably correct theory about what had happened to the hundreds, perhaps thousands of star systems that must once have existed on the other side of the wall.

Will there come a time when we know such power? Such arrogance? Picard wondered.

"We shall pass through the wall in fifteen minutes," Data announced over the desk screen.

"I'll meet you on the bridge in five," the captain said and tensed for a moment, then shut the desk-screen off. He was suddenly and acutely aware that his fellow officer was, like the Dyson Sphere, but the handiwork of a clever species, of a momentarily very successful species, that might or might not become as extinct as the Dyson engineers one day.

Dyson was already an artifact. Data might yet become one.

Clever species, Picard thought, then thought again of all those missing stars between the wall and Dyson, and thought again of power and arrogance.

"What are we going to do with the universe?" he said to the empty room, and winced. "Wherefore, what shall we do?"

The universe was full of belittling timeframes. For the Horta named Dalen, the last third of her life, all of those years, had passed so quickly that they

seemed only a Vulcan lifespan.

How many more years lay ahead? the Horta wondered.

Maybe fifty thousand?

Yes. Fifty thousand, perhaps, but no more.

This was a mere chip of time, scaled against the age of her homeworld, Janus VI, whose oldest rocks had solidified more than seven billion years ago.

"Only the rocks live forever," said the humans. She could scarcely dream what time must mean to them-to Picard, and to

his predecessor, Captain James Kirk, whom her people would always remember as one of those who had brought them out of the darkness.

When Dalen's ancestors already had many millennia of history behind them, there had existed only a few thousand people on Earth, and they had scarcely begun to wrap their minds around the concepts of building huts and milking goats. Yet during the lifetimes of the oldest of the Horta, billions of them had come and gone. Whole empires had come and gone. And the humans, understanding, now, how to milk power from antiprotons and subspace, had come to the stars and showed no

intention of ever going away.

And they had carried with them, in their first deep-range exploratory vessel; the Vulcan named Spock, who was said now to be approaching the end of his own unimaginably short lifetime.

Captain Dalen, for her part, barely perceived the paradox. For her, there was only satisfaction in the realization that some part of the Vulcan who had saved her entire species-had managed to live a little while longer, if only in crude snippets of DNA.

A little while longer...

It was more than a thousand light years, the Horta knew, from her starship, the Darwin, to the Beta Niche nova.

Curiously, that distant sun could still be viewed starboard and aft, as a dim star circled by a thriving Class M planet.

To the Horta-turned-Federation archaeologist and starship commander, this was the best and worst of times. She oscillated wildly between regret at leaving her quiet life in the caverns of Janus VI, and celebration of escape from her quiet life in the caverns of Janus VI. She was getting used to discovering strange paradoxes in every direction, ever since the humans had opened up the universe to her people. A part of her

hated them for this. And a part of her loved them for the same reason.

The surface of Captain Dalen's Homeworld had been nothing except the cold vacuum of empty space, and any who had tunneled straight up and broken through were gushed out, naked, onto an airless deathscape. For their efforts, they left behind only two things: a screaming, out gassing tunnel that had to be quickly sealed, and a very poor inducement for continued space exploration. The theologians and the philosophers around her had declared that there was nothing on the other side of the sky. All life, all matter, and time itself ended at a world-encircling ceiling. And beyond that:

nothing. Absolutely nothing.

And then out of nothing, out of that deep, impersonal nothing, had come the miners and the explorers and the starships, bringing with them the tools of subspace communication-which revealed to the Horta a sky that was full of voices. There had been a time when a nest of newly hatched Hortas had seemed crowded to her, even intimidating. But nothing, it seemed, was so crowded as cold, "empty" space.

One of the most prominent of the latest generation of explorers was, unsurprisingly, also the newest captain of the Enterprise. This Picard fellow

wanted to conduct an archaeological survey of the Dyson Sphere now, and he wanted the Darwin's Horta crew on site now. And he had an uncanny way... of getting his way. Captain Dalen's shipping orders had come direct from Starfleet and the Federation Council in San Francisco.

She had no great desire to actually meet Picard. Clearly the man either didn't know or didn't care that Hortas always attended to the task immediately at hand before moving on to the next task, however long it might take. Hortas had the time.

Yet nonetheless she now found herself,

her ship, and her crew speeding through subspace toward Picard and the Dyson Sphere. And she had the feeling that whether it took her seconds or centuries to reach her destination two facts remained constant. One: Many of the Federation's assumptions about the nature and origin of intelligent life were, to her mind, probably wrong. Two: Many of the Federation's assumptions about the nature and origin of subspace were probably wrong.

It was nice to know that the universe still had secrets to tell, and that the humanoids, for all their great ships, for all their explored frontiers, were still eager to learn.

Compulsively curious species, the Horta thought, and winced. What, ultimately, were the humanoids going to do with the universe? What would the universe do with them?

"Captain," Data said, "the Darwin's captain in-forms me that she and her ship will be coming through the Great Wall in three hours."

"It's about time," Picard said, and lowered a hand to his stomach. This time, his passage through the wall had produced a queasy feeling. At present, no dust particles glowed and scratched warp trails on the bridge screen. Ahead

of the prow, the nearest stars were two hundred light years away. This meant that in the view-forward, at normal magnification, there was absolutely nothing to be seen.

The captain had looked out across, and voyaged across, thousands of light years without this same queasiness. He reminded himself that he had known the stars too long to be disturbed by dark, empty places, but little banana fingers were curling around his spine anyway.

This time, he knew that the emptiness had been engineered.

Last time, there had been nothing ahead

except Montgomery Scott's distress beacon.

This time, he knew that the most impressive alien artifact ever discovered lay ahead; and while Dyson was huge by any standard, he knew that more than two hundred trillion kilometers of total darkness lay between the Enterprise and the Sphere, and that this, too, belonged to the artifact.

The Sphere was the only object of its kind in all the known regions of the galaxy, although Picard doubted that it was unique. It was simply too attractive a design possibility to have inspired the engineering prowess of only one

intelligent species.

Data had named the object after the twentieth-century scientist Freeman Dyson, who had anticipated that some civilization, somewhere, understanding that most of the power from its sun was being poured, wastefully, into the unfillable sink of space, might contrive to enclose the sun.

When he first considered the idea, Picard had suspected that such a vast construction would have to be a Dyson Cloud-millions of closely spaced habitats clustered around the star, and therefore much easier to construct; but the reality had proved to be a continuous

sphere of what seemed to be solid material, imprisoning its sun with no visible breaks in the outer surface-a delightful feat of engineering, using an advanced materials technology.

The artifact, itself two hundred and four million kilometers in diameter, was located at the center of a cave two hundred light years across. The cave was a perfect sphere carved out of the galactic cloud of stars, gas, and debris. There was no doubt in the captain's mind that the combined mass of thousands of solar systems had been gathered to open this hole in the galactic sea. Ahead, at the center of a stellar desert, was a vast oasis, watered by the energies of a once

free star. Why then, as nearly as anyone had been able to ascertain, had the builders abandoned their creation?

With the wall of stars receding aft, the Enterprise began to cross the final hundred light years of desert toward the still invisible Sphere, and Picard could only wonder whether the presumed instability of the central sun was enough to explain why the builders had abandoned their home; he found it strange that they could not have stabilized the star before building so much around it. Was it possible that they had made the Sphere long before they suspected that their sun might develop problems? He found it difficult to accept

that such a labor and resource intensive project could have been undertaken by beings lacking in foresight, even though he knew very well that the psychology of intelligent beings was everywhere flawed. Curiouser and curiouser... it fueled his appetite for the mysterious; and between the desert and the central sun of Dyson, mystery was his only certainty.

He glanced at Deanna Troi, who was seated at her station to his left. She met his gaze in silence for a moment, then said, "I can understand your frustration, Captain. How can we believe that after so much work they simply gave up?"

"Or can we believe that they simply died before they could leave?" Picard answered. "Is it possible that they are still somehow here?"

He stood up and looked around the bridge. His chief medical officer, Beverly Crusher, had ventured up from sickbay only a few moments ago. She stood near Geordi La Forge, who had cleared the neutrino telescope display from his screen and was scrolling through a vast collection of high-resolution scans made during the Enterprises first, hurried visit into the Sphere. Viewed from a distance of more than forty million kilometers, there was a small white island on the inner surface

that later analysis by the more advanced Federation computer had clearly shown to be covered with Dalmatian-like patches of dark coloration. The patches probably represented forests and near-surface water tables interrupting what would otherwise have been smooth desert terrain. On Earth, Antarctica was considered large enough to be a continent. The desert "island" on Geordi's screen was six times as large, yet here it barely qualified as a beach.

Offshore lay a scatter of microscopic sandbars, ranging down in size from the British Isles to Manhattan Island. There were too many of these "true islands" to be easily counted, much less named.

Some were heavily forested, and ground-piercing radar sensors had revealed narrow lines and rectangular depressions that might have been roads and building foundations, unrepaired for millennia. Other islands, at the very limit of resolution, displayed structures that still appeared to be standing intact, as if inhabited only centuries ago, or decades ago. And all of these lands were lost in the center of a strange sea, almost perfectly circular, and as wide as the orbit of Mercury. Geordi had named the sea Great Scott, in homage to his fellow officer and Starfleet engineer Montgomery Scott, the man whose crash beacon had first led the Enterprise to the Sphere.

Geordi turned toward Picard. "I'm with you, Captain," the chief engineer said, "I can't believe that they just left all of this behind. They built a sea wider than four thousand Earths. What happened to them? I can't help thinking it must have been a terrible accident of some kind."

"Hard radiation could have left the Sphere in-tact," Data said, "while destroying all life. Maybe their sun flared suddenly, driving the creators out and producing a barren landscape resembling Earth after the death of the dinosaurs."

"But some of the islands appear to be

covered with highly evolved forests," La Forge objected. "To judge from the heights given by radar imagery, we're talking about trees, big trees, possibly even with animals in them."

"The forests could have come through a disaster by the dormancy of their seeds," Data pointed out. "Or they might even have evolved afterward from mere grasses, or from lichens, and a few other stragglers that managed to hold on. The situation here may be similar to what a dinosaur would see, if it could be brought back to Earth today."

Geordi let out a laugh. "You mean, 'Look what happens: I go away for a few

million years and the rats take over-and they've evolved!"

"Exactly," Data said. "So I would not throw the catastrophe theory overboard quite yet."

"Perhaps the Dyson inhabitants were not driven out by anything," Troi suggested.

"Maybe they found something more important to do." More important, Picard thought, would have to be vastly more important to qualify as a reason to leave.

"Or something less appalling to do," said Beverly Crusher. "I find this place extremely fascinating but still disturbing. To build something on such a scale

eating up whole sun systems in the process. What could have moved them to do it?"

"That," Picard replied, "is one of the things I hope to learn." Disturbing did not seem an apt characterization of the artifact; neither did bizarre, the words just weren't big enough. The right words, he decided, simply did not exist.

"Captain," Geordi said from his station, "I don't think there's been enough time for trees to evolve from grasses. That would have required millions of years, but if you look at the cave of stars-"

Geordi brought the view-aft onto the

right side of the bridge screen. "You'll notice that-" the engineer began.

"-it still has a clearly defined edge in all directions," Data finished for him.

Data marveled at the sharp edge revealed by the viewscreen. It was moments like as this that made the android long to be fully human. While the humans envied his positronic memory that contained the accumulated knowledge of multiple civilizations, he was not as skilled as they were at connecting disparate and seemingly unrelated facts. And he sensed something that might be called envy for them, envy for their gift of intuition, as he waxed

encyclopedic: "Aft and ventral, Alpha Powell A and Beta Noyes C are moving toward the Great Wall at 5.3 kilometers per second. The normal motion of stars in the galaxy should have blurred the wall's edge relatively quickly, in the same way that constellations will change in the sky of any world in a matter of a few tens of thousands of years."

"I see," Picard cut in, "that such blurring is not even visible here-"

"Yes, Captain," Data continued. "This cave hewn out of the star field cannot be much more than a hundred thousand years old, so by association the Sphere is the same age. As stars measure time,

the Dyson Sphere was built only yesterday."

"Built by whom?" Picard asked. "That's what troubles me. Is there a race we know that could trace its ancestry to a people who would scoop out a volume of space two hundred light years across to complete an engineering project?"

"Captain..." Troi began, her voice laced with hesitation and concern.

"Yes, Counselor. Think of people with a voracious appetite for power. We must consider the possibility that this is the archaeology of the Borg."

"A fascinating hypothesis, Captain," Data said from his station.

"And like most hot speculations, it's probably wrong," Picard replied. "But criminal behavior does spring to mind, despite the impressive display. An inside-out world with more habitable area than a quarter billion Earths-it makes me think of all the solar systems that will not be here to develop intelligent life."

Troi said, "Perhaps it was guilt over that very realization that led to the Sphere's abandonment. That guilt may have worked on them for a long time."

"I wouldn't count on that," Picard said. "I wish I could believe that they became, Like the Ionian Greeks, a race of philosophers and dreamers, and turned their back on instrumentalities." He shook his head. "Maybe the ultimate consumers went at last to another extreme, and threw off all material possessions. Maybe, instead of the Borg, the road to Dyson leads to-"

"No, not the archaeology of the Q," Troi said.

"A cosmic joke, either way."

"Captain," Data said, "we have few facts from which to reason."

"Quite right, Data. But the possibilities are finite. We can guess the answer-but it will only be helpful if we can later prove it true."

"Human find it helpful to work in that way," Data said, "backward from a guess. Your great physicist, Richard Feynman, advocated such a procedure."

"But you find it... confusing?"

"A leap into the dark, perhaps," Data replied.

By the time the Sphere became visible as a pale gray dot on the main screen,

Commander William Riker had come onto the bridge. He, Data, and Geordi La Forge had reviewed all the known facts about the artifact, and had begun to connect them with incoming information.

Picard leaned forward in his captain's chair, considering what the three officers had said, fascinated by how the real world had invaded the realm of possibility and exceeded all expectations.

The trail of neutrino flux measurements, recorded during the Enterprise's first departure from the Sphere, out to a distance of one thousand light years, had confirmed that the star at the Sphere's

center was in every way a normal, stable sun of approximately 0.5 solar masses. That had been true until only a few weeks prior to the Enterprise's first encounter. Now solar activity was suddenly waning, bringing on a "Little Ice Age."

"Mr. Data-what's your diagnosis?" Picard asked.

"Curious, Captain." Data turned in his seat to face Picard. "There are indications that energy is being transferred through subspace to the very inner surface of the Sphere, causing the entire shell to move."

"What?" Picard asked. "Why would it wish to move?"

"I doubt that it wishes anything, Captain. It just does. Not only is the Sphere moving off center of its cave of stars, incoming neutrino scans now reveal that its central sun is also off center."

"Yes," La Forge said from his station, "I see it, too."

Picard stood up. "Is the Sphere malfunctioning?" "Perhaps," Data replied. "Untended automatic systems will probably descend into chaos, given enough time. And it would seem to me that the Dyson Sphere has had enough

time. There may be nothing at all intentional about what is happening."

Crusher left La Forge's side and came to stand near the captain, her eyes on the forward viewscreen. Picard suddenly felt that the vast construct, for all its frightful majesty, for all its obscenity and beauty, might be doomed; and it disturbed him to think that all they might have learned from it would be lost. If there was anything more disturbing than having the Sphere snatched away before his questions could be answered, it was having the Sphere snatched away before he knew even what questions to ask.

"Captain," Data said, "we are registering

unusual activity deep inside the cave, at bearing forty-five mark five. On screen now."

Picard stared into the dark, but all he could see was a faint, computer-enhanced rippling of otherwise flat spacetime geometry.

"What is it, Data?"

"One moment, Captain. I must make certain."

"Very well, Data, but don't take too long."

"A wormhole is opening," Data said,

"and there is a steep increase in radiation output."

Picard tensed. "Any signs that it's another ship?" he asked.

"Mass registering millions-no, billions of metric tons," Data said, and before anyone else could react, it rushed through the hole, quaking as it arrived. "Mass approximately equal to Earth's moon," the android added. "Diameter why, it is smaller than the Enterprise, Captain."

Picard shook his head, slowly. "Not a ship, then. Tightly packed neutrons."

"Yes, a neutron star."

"Velocity, Data?"

"Approximately one-third warp speed."

"Heading" the captain asked, though he already knew the answer.

"Collision course with the Dyson Sphere."

Picard sat down, stunned by the sheer weight of the numbers. An amount of mass small enough to be contained in a teacup, if converted instantaneously into photons of light, could vaporize a whole city. Even a crate of teacups, striking

Dyson at relativistic speed, would have jarred the structure; but a whole lunar mass? This was far beyond overkill. In the arena of relativistic bombardment, a direct hit was as good as a glancing blow. At one-third warp speed, nearly a quarter of the neutron star's mass would be converted into energy, and a nearly equal amount of Dyson's mass would be converted. For several tenths of a second, Dyson would produce more light, and more fast neutrons, than all the stars in the galaxy combined.

Picard did not want to be anywhere around, on, or especially in Dyson when that happened.

And it really was going to happen, he realized.

He was powerless to prevent it. As he looked around the bridge, he could see the apprehension and frustration on the faces of his fellow officers. Worf, in particular, wore a grimmer scowl than usual.

"But why?" Riker asked from his station.

"Perhaps someone doesn't approve of Dyson Spheres," Picard said.

Troi asked, "Is it possible that the race that built it is now destroying its work?"

"Perhaps they have enemies-" Worf said, clearly seeing the neutron star as a weapon being wielded, who will not tolerate such a display of power and craft encroaching upon their progress."

"Or," Picard began, "they have indeed sent a neutron star to destroy their own work after abandoning it, because they do not wish to leave such an artifact to be inherited by others."

"Build your own," Riker added. "Is that what they're trying to tell us?"

"If I may venture a... guess, - Data said, in what seemed an effort to show that his internalization of human ways was

improving, "using even a whole Federation's worth of warp drives, it would be nearly impossible to push a neutron star up to one-third warp speed. But our sensors have detected, from a very safe distance, a black hole weighing in at fifty million solar masses swallowing whole star Systems near the galactic core. As they fall, they spiral in, and these spirals are very tight, and very fast."

"Relativistic," Picard said.

"I have clocked neutron stars near the hole at one-third warp. All you need to do is open up a worm-hole, and point it in the right direction."

"It acts as a cannon," Worf said, unable to hide the note of admiration in his voice.

"But that requires going to the galactic core, doesn't it?" Riker asked.

"I should think that would be child's play for Dyson's engineers," Picard replied.

"A cute trick," Troi said. She leaned back in her seat and shook her head.

"But isn't it possible that the Sphere was abandoned to avoid the very danger we're now witnessing? What if it became too big a cultural target, too large an advertisement of power and

ability, and some other race has decided to destroy this threat to its own existence?"

"I could not have said it better myself, Counselor Troi," Worf muttered from behind her.

"Pretty bleak," Beverly Crusher said. She turned toward Picard. "I suppose this can't just be a natural occurrence?"

"It is not likely, Dr. Crusher," Data answered, "Of that we can be certain. The neutron star is too well aimed, and its means of arrival too novel, perhaps even too well-timed."

"But what could they have feared from the builders of the Sphere?" Crusher asked. "Or from us?"

"Perhaps nothing more than that they would be destroyed if they didn't destroy first," Picard said.

"An old story," Troi added,

CAPTAIN'S LOG, STAPSHIP
ENTERPRISE IMPACT MINUS 13
DAYS EGRESS MINUS 10 DAYS

Who are they? What do they want?

Why are they doing this? I regret that we will probably never know.

Who would have believed, a year ago, that after tens of thousands of years of existence, the Dyson Sphere had only a year to live? What can be said, now, but that the universe has a severe sense of humor?

This time, the Enterprise will not venture inside the Sphere. A Voyager-class vessel, the Darwin, will join us for the purpose of exploring seas and continents and ruins, and to find a routine for entry and exit, but neither ship shall venture close enough to be seized by the lock's tractor beams until the system is understood.

For all our efforts, these last sixteen months, we have had only one glimpse of the interior.

But-oh, the things we have seen in that glimpse. Beautiful things.

Originally, our forthcoming reconnaissance of the interior was to have lasted six months.

Then the sun turned out to be moving off center and we were down to perhaps a month of exploration before staying inside ceased to be an option.

And now-now it's down to days. 13.6 days before the relativistic cannonball

strikes. Al-ready, that is too close for comfort. Long before that time, we must be out the door, and then we will lose Dyson, and I am afraid we will never see the like of it again.

2

Horta in Command

"Captain," DATA SAID, "the Darwin and her commanding officer, Captain Dalen, are hailing us."

"Open," Picard said.

The image of a Horta seated in the command pit of its specially adapted

starship was at once disconcerting and delightful to Picard: a rock in a saddle. The Horta community had come a long way since first contact with the Federation, partly through the efforts of the legendary Spock. Despite their physical peculiarities, some of the Horta had become explorers.

Inside those lumpy, physically rigid shapes lived imaginative, supple minds that also wondered and were curious about the universe, that gloried in the means supplied to them by the Federation, and looked outward from the stony tunnels of their world.

"Captain Dalen here," the Horta's

electronic voice sang. "Captain Picard, we must enter the Sphere as soon as possible, if we are to learn anything at all before it is destroyed."

"With all speed," Picard answered, trying not to smile at the irony of his colleague's new urgency. Rumor had it, Dalen had previously been irritated by Picard's eagerness. "Data, what's your latest estimate on the maximum amount of time we have?"

"Still holding at just under two weeks, Captain," Data said from his station, "including a three day margin for retreat to a safe distance from the blast."

Just days, Picard thought, to study the inner surface of a world whose Great Scott Sea alone was too large to run a sailing ship across in less than a century, where populations of tens of billions could conceivably live and never meet. Here was a vast archaeological universe, one that would haunt explorers for a thousand years to come. How much could really be learned during the single fortnight remaining?

"Captain," the Horta sang, "do you have any ideas about how to solve the lock triggering problem?"

"Mr. Data," Picard said, "may we have your thoughts?"

Data continued to face the forward screen, and said, "Yes, Captain. The simplest solution to the problem, short of finding and replicating whatever combination of electromagnetic and or subspace emanations from our ship activated the lock last time, would be to send either a probe, or one of our shuttle craft, to trigger the lock, then let it withdraw after the Darwin has entered. We are already running such a frequency search program, but it may be that a robot probe's mass will not be noticed by the system, and a shuttle will have to be used. It may also be that there is no combination of frequencies for triggering the lock, and that the Sphere's systems

simply recognize and bring in vessels of a certain size and configuration, as it did with us on our last visit."

Data paused, then said, "Something is certainly wrong with the Sphere's exit program. When you see a sun going off center, it is a sure sign that the system has become unstable. So we must plan as though the doors of Dyson will slam shut after the Darwin goes in. When the Darwin wishes to come out, we will again approach with a probe or shuttle and turn the lock."

"I wish it were easier," Picard said.
"The time allowed us here," Captain Dalen said from the screen, "precludes a

more elegant way. Going in poses no great difficulty for us, but coming out dictates in no uncertain terms that your Enterprise keeps station outside the Sphere. The only alternative is to probe the lock itself for a subspace pattern, or a code, if one exists, that we would use from inside to let ourselves and the Darwin out."

Picard shook his head. "That may take longer than the time we have, Captain Dalen."

Data turned to face Picard. "I must remind you, Captain, that we cannot use weaponry to open the lock. The Sphere is sheathed in a membrane of solid

neutronium."

"But the neutron star will penetrate it?"

"Nothing can stop such an object," Data said.

"Captain Dalen," Picard said, "some members of my crew will be aboard your vessel shortly to assist you."

"We're prepared to receive them, Captain Picard. Don't take too long. Darwin out." The view screen returned to normal.

Picard looked around, then stood up from his station. "Time now to decide

which of us will go aboard the Darwin. Conference in five minutes."

Lieutenant Worf took a seat at the conference table, then looked around at his fellow officers, wondering if they truly felt the danger that now faced them. The frozen smile on Dr. Crusher's face was a sure sign that she was trying to push that danger to one side of her mind. Worf preferred to confront it.

Worf turned toward the head of the table. "Permission to speak, sir," the Klingon said to Captain Picard.

The captain nodded in his direction. "Go on." "I do not believe," Worf continued,

"that the Sphere is being targeted by a weapon. Stimulating as it is to consider such a war technology, I doubt that the Dyson Sphere merits an attack on this scale." The natural universe, as every Klingon knew, was itself a fearful antagonist. "So how do you explain it?" Picard asked. "Perhaps a natural catastrophe at the center of our galaxy opened this wormhole and brought the neutron star here by chance." "Mr. Data?" Picard asked. "That is possible, Captain, but not probable. Dyson has been here for as many as a hundred thousand years. The chances of the spontaneous appearance of neutrons now, during our visit, is at least as improbable as drawing a straight flush."

Riker shook his head. "In hindsight, every hand is equally as improbable as a straight flush - or, for that matter, a royal flush. Each one of those hundred thousand years was equally improbable."

"True," Data responded, "but while it may be a mistake to ascribe intent to an event that happens to concern our interests, in this case the possibility of it being an unintended event seems unlikely to me. In either case, we cannot proceed on that assumption." "An accident of nature." Riker sat back in his chair. "It's just too convenient," he muttered.

"It seems convenient," Worf emphasized, "but only the most cowardly antagonist would hurl so massively destructive a weapon, even after a declaration of war. There is little glory in such conquests, and no chance for a warrior to display his bravery." He preferred to believe that what they were facing was a natural event, not out of any cowardice-he could hardly imagine such a contemptible feeling- but because standing against an enemy with such overwhelming technical superiority would require no ingenuity, no brilliant use of strategy and tactics, only the willingness to die for no end.

Picard rested his hands on the tabletop. "I understand your feelings, Mr. Worf," the captain said, "but this does bear the mark of an intended act. We cannot conclude, and behave, as if this were a natural occurrence in the absence of further evidence. While it may be difficult, at this point, to tell an intended attack from an accident of nature, we lessen our risk if we are prepared for the former and the latter turns out to be true."

"It is safer than the other way around," Data said, nodding his agreement.

The captain nodded back and said, "Now, Data, how many solar systems do

you suppose existed here before the Sphere was built?"

"I estimate between one hundred and forty-six thousand and one hundred and fifty-two thousand, Captain."

"As I see it, that makes about one hundred and fifty thousand possible reasons why someone might have a grudge against the Dysons. Maybe one of the old evictees, or survivors, has come back. For all we know, what we're witnessing is one small battle in a galactic war. I'd hate to learn that the front line is coming our way."

Riker's eyes went wide with disbelief.

He shook his head in denial. Worf was already wondering what kind of battle they might face.

"Be prepared for surprises, Number One," Picard said. "They're the only certainty here. In less than two weeks, all hell is going to break loose. And when it does, hell itself will look like shore leave by comparison."

Troi's fingers tightened around her cup of tea. "Or like Dyson but a little colder," she added.

"The front line?" Worf said, wishing that a Klingon vessel were nearby, if only to gather what information it could about

any advanced weaponry.

Picard looked grim. "That's one of the things we must determine, if we can, and if there's time- which brings up the question of who will make up the away team that is to go in with the Darwin."

Crusher and Troi looked at the captain expectantly. La Forge and Data were still, while Will Riker, with his familiar look of anticipation and restlessness on his bearded face, was clearly hoping to command the away team. They all wanted to go; they would all be thinking of what they might discover inside the Sphere. Worf was still contemplating the neutron star that might destroy it.

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neutron star that might destroy it.

Picard turned his head toward Riker. "Number One, normally I would put you in charge of the away team, but in this case I shall assume that position, and leave you in command of the Enterprise."

"I expected that," Commander Riker replied, but he looked disappointed nonetheless.

Worf knew what was coming next. "And since the neutron star is out here," Picard continued, "and since the Sphere's interior seems less likely to produce work for a warrior, Worf will remain

outside with you. Data, you will also stay, and take charge of perfecting our method of entrance and exit from the Sphere."

"So who else is going?" Beverly Crusher asked. "You might need another physician aboard the Darwin."

"If you had experience treating Hortas as well as humans, I'd agree," Picard said, "but I'd rather have you aboard the Enterprise for now."

Data said, "Then by process of elimination, Captain, it must be La Forge and Troi who will accompany you."

"Yes."

Worf heard the excitement in the captain's voice, and noticed that Troi was looking at him as if to ask how he felt.

"I'm fine," Picard said, as if anticipating her question. "Just had a physical last week." He glanced at Crusher, who nodded. "I must admit that I am excited by the prospect of exploring the Sphere. Thrilled, if I may say so. I wish our circumstances were less apocalyptic, but this is the hand we've been dealt, and there is no reason not to play it out. Does anyone disagree?"

Once again, Worf knew why he liked to serve with Picard. The man was not a coward; cautious only to the point where less caution would make him foolhardy; brave even to death if that were the right course.

"Well, then," Picard said as he stood up. "It's time to kick the door open. Data?"

"Yes, Captain. I shall make it so."

Worf's eyes narrowed in admiration. Once Picard had glimpsed the interior of Dyson, even with a relativistic shotgun aimed at his head, it was inconceivable that he should not go inside again and take a closer look.

"There is gold scattered under our beds," wrote T. E. Lawrence of his archaeological villa in Babylon. Picard knew this particular tale of Earthly archaeology well, and was reminded of it as he materialized aboard the Darwin. Thomas Lawrence and Leonard Woolley had provisioned their villa with a huge fireplace, ankle-deep sheepskin rugs, coffee tables with ancient Babylonian sphinxes for legs, and a huge bathtub with beaten copper trim. They ate dates from a golden dish found in the tomb of Shubad Khan, and drank tea from Hittite clay goblets. When a visitor asked them if they were worried about dropping and breaking the treasures, Lawrence (who

happened, at the time, to be wearing a Babylonian king's robe of gold and silver thread) replied, "If we drop them, the British Museum will be glad to have the pieces."

That was about five years before World War I. Picard could get extremely depressed thinking about the archaeological treasures that had vanished during Earth's world wars. Much about the science of archaeology had changed since Lawrence's time, except for occasional intrusions of warfare into one's research-and, of course, the villas. They were, compared to the tents that botanists and paleontologists traditionally camped in,

luxurious.

Picard nodded at the Horta positioned behind the lowset transporter console as he followed another Horta out of the transporter room, trailed by Troi and La Forge. The science starship *Darwin*, in a tradition dating back to *Lawrence* and *Woolley*, had been spared no expense. She was a giant, roving archaeological villa with warp engines and a pair of new, oversized shuttles attached to her belly. The shuttles, christened the *Balboa* and the *Engford*, gave the outside of the *Voyager*-class vessel, to Picard's mind, a curiously pregnant appearance.

Inside, as he had been informed, all of

the decks, save for the engineering sector and a few dozen cubic meters of hastily furnished "humanoid quarters," were a maze of tunnels and bare chambers hewn out of what appeared to be solid rock. Picard, lengthening his stride to keep up with his Horta guide, felt almost as though he were moving through a mineshaft. But it only appeared so.

"To the bridge," the Horta said when they came to the lift. Picard entered with his two officers; the door slid shut behind them. In a few moments, the door in front of them whisked open.

The Darwin's bridge, even with its

rocklike floor, stations with saddles instead of chairs, and consoles and display screens closer to the floor than usual, was not unlike the bridge of the Enterprise. The distant, only dimly lit Dyson Sphere had grown to cover the entire forward view of the wall screen. Dead center, a subspace beacon dropped by the Sagan's captain called attention to the only truly useful point of reference on Dyson's otherwise craterless, colorless surface. When Montgomery Scott's ship, the Jenolen, crash landed on the Sphere, it had produced a thirty kilometer-long stain, or skid mark. This was the only sign of anything like a meteorite impact in all of Dyson's history. Even at the screen's highest

possible magnification, there was no evidence that the crash had done the slightest damage to Dyson's shell. What appeared to be twin furrows of plowed-up debris had come, all of it, from the sandpapering the Jenolen's underside had received; but the skid mark provided an unmistakable reference for orientation, making "Scott Base" the declared South Pole of Dyson. True as a compass needle, the skid pointed the way to the lock that Picard had opened once before. Captain Dalen tilted the view upward from Scott Base. Upward and upward, revealing a landscape that, though he had seen it before, still seemed impossible to Picard.

The Darwin was a half million kilometers above Scott Base, approximately the height of the Moon over Earth. Dyson's horizon was many millions of kilometers away; yet the surface, which Picard knew was curved, seemed as level as the Utah salt flats viewed from the height of a footstool.

Picard walked toward the Horta captain's command pit, with Troi and La Forge just behind him, descending a rocky ramp to the captain's side. He straightened his tunic and said, more stiffly than he hoped, "Captain Dalen, on behalf of myself and my team, we are honored to be aboard your ship."

"Thank you," the Horta's amplified voice replied. "Together, we shall prevail in our mission. Please sit down, if you wish."

"Oh, I don't mind standing," Picard said. Except for the floor, the only other unoccupied and available seating at the moment was an empty saddle to the right of Captain Dalen.

"Enterprise to Darwin. Data here."

"Yes, Data," Picard replied.

"We are almost within sight of the lock entrance," Data's voice continued. "I

think we can open it by tuning its subspace frequencies. I have now run through just over ninety trillion new subspace sequences. Statistically, we should be able to hit the right one by the time we face the lock."

"Continue," Picard said, knowing that what "should be" and what "would be" could be galaxies apart. "We can't let the system lead us in until we know you'll be able to open it later."

The lock was now visible on the screen, unchanged from the day Picard had last seen it. The Darwin and Enterprise both came to a stop and kept station with the lock's position. Both ships were well

removed from the triggering point, where tractor beams would reach out and bring them inside.

Picard waited for Data to call. A minute went by, then another.

At last Data said, "It is taking longer than expected, Captain. Unlike our 'real' universe, subspace is not limited to just one electromagnetic spectrum. We have known of a hundred twenty-seven possible microverses. Here, I am beginning to suspect more."

The Horta captain shifted uneasily in her saddle. "How many more?" she asked.

"I'm seeing traces of thousands," Data said. "Multiple thousands."

Picard wondered if, after all their patience and planning, they would be unable to get inside. The neutronium membrane could, in theory, be pierced, perhaps even peeled back; but the damage would be horrendous. Although this would be nothing compared to the damage the neutron star was about to inflict, there were certain aspects of the Sphere's present instability that, at least on a subconscious and purely instinctive level, gave him the feeling Dyson was in some manner responding to the attack.

On the heels of this thought came an even

more disturbing one: Might the previous instability have occurred in anticipation of the star's arrival? This meant that the presumably abandoned system was acting out of a sense of self-preservation, as he or Data would under similar circumstances. Increasingly, Picard was getting the impression that what he was really attempting was to enter a living organism-which meant that the Darwin and the Enterprise were, by comparison to the Sphere, a pair of invading virus particles. Viruses could survive well enough inside a human body, so long as they did not step out of line, vandalize any cells, and trigger an immune response. But-

No, Picard thought. Using the Darwin's weaponry on the membrane would not work. The subtle approach, namely lock picking, would have to serve; although he had to admit that a meeting with Dyson's antibodies, if such existed, would certainly be interesting. He did not expect, however, that he would survive the encounter for more than a few milliseconds.

No, he reminded himself; we must be subtle.

"Darwin must be subtle," the Horta said suddenly, as if reading Picard's thoughts. "Then again, I wonder if our tunneling enzymes could eat through neutronium."

Picard was startled by the suggestion, but then realized that the Horta was not serious.

Captain Dalen was joking.

Picard let out a laugh, for polite show.

"The Sphere, the Sphere," Captain Dalen intoned. "Here is a question. How many Horta would it have taken to hollow it out?"

"How many?" Picard asked, knowing that he was being set up.

"One big Horta!" shouted Captain Dalen.

Picard laughed a little more loudly. Not half bad, he thought. Much better than "Horta Culture" jokes involving rock gardens.

"Captain Picard," Data's voice cut in, "I believe we have a subspace lock combination. It is spread across three hundred different subspace spectra."

"So it is an expanded microverse," Picard replied.

"Yes. It appears everything we thought we knew about subspace and superstrings will have to be rethought. The microstructure of spacetime is more

tangled here than any place else in the known universe."

"The Sarpeidon Nebula," the Horta said, deadpan. "There is one other place. The Sarpeidon Nebula. We had an extended research mission there a little while ago."

"The now destroyed home system of a vanished race that built time portals," Data shot back, obviously having made the connection in an instant. "And you say subspace is just as tangled there?"

Captain Dalen moved the entire forward portion of her body, approximating, in accordance with human custom, what

Picard recognized as a nod.

"Are you suggesting," Picard said, "that the Dysons disappeared into time the way the Sarpeidans did?"

Captain Dalen shook her "head."

"Unknown. We found that the tangle-well, sort of unravels about one hundred thousand years ago, as if it suddenly came into existence out of nowhere. I've been making modifications on the Darwin's subspace sensors ever since, and so I've now had an opportunity to probe backward through subspace all the way from Sarpeidon to here. And do you know what I've found?"

"Let me guess," Picard said. "The Dyson tangle unravels near 100,000 B.C., which is about the time the Sphere was built."

"Correct."

"So, the Dysons, and someone on Sarpeidon, may have re-engineered the fabric of spacetime. Rebuilt it to their own design."

"Not just here and at Sarpeidon," the Horta replied. "All of the normal subspace dimensions between here and Sarpeidon have something in common with Sarpeidon and Dyson."

"You're joking," Picard said.

"Not this time. It's only a theory, of course, but Sarpeidon and Dyson-although the subspace that surrounds them appears to have been more intensely reworked than elsewhere-may not be merely the exceptions that prove the rule. They appear to be the actual rule. Probe back just a little way beyond them and all of subspace-all of subspace-breaks down into only the four most basic dimensions of space-time. I believe that someone, somewhere, rewove the entire fabric of the universe, and what's happened here is that you, and all the other young civilizations-maybe even the Dysons and the

Sarpeidans-simply stumbled upon the bales of fabric someone else left behind, and learned how to wrap warp engines, transporters, and subspace communicators around them."

Picard looked at the Horta with astonishment and admiration, and more with admiration than astonishment. He let out a long sigh and said, "So, what you're suggesting is that subspace may itself be an archaeological artifact."

"May be," the Horta sang, and laughed.

"So then the question is, why would they build subspace so much deeper here?"

"There are many possible reasons," Data suggested. "One obvious advantage is that it greatly multiplies the odds against someone just cruising up to the front door and being able to find the right lock sequence."

"An added layer of immune defense," Picard added, "probably against unwanted visitors, and unwanted infection."

"Meaning us," said Captain Dalen.

Picard grinned, in the manner that Sejanus, the Roman conspirator, might have grinned when he realized that the Emperor Tiberius had clothes after all,

and brains, and teeth. "Data," he said, "try the lock twice. I'd like to know we have a good chance of making it work on our way out."

"I was thinking of trying it three times, Captain."

"Three, then."

"Signal sent."

The door to Dyson began to open, and Picard recalled that it was not the usual kind of airlock, since there was no atmosphere that could escape during the entrance or exit of vehicles. Dyson's atmosphere clung to the vast inner

landscape, held in place by a field of pseudo gravity whose grip weakened so rapidly with increasing height that at an altitude of only fifty kilometers, it exerted no measurable influence at all. The doorway had a field of its own: a force wall standing thirty kilometers high and completely rimming its eight corners. Against that wall, the atmosphere piled up, as if it were merely water pressing against the sides of a fish tank.

The artificial gravity was not generated by centrifugal spin. It was created by gravitic generators, according to scans obtained during the first encounter. Much like the synthetic gravitational fields

inside the Darwin and the Enterprise, they acted with little regard for the inertial effects of acceleration and deceleration-another fact made possible only by the miracle of subspace. This held true, of course, only for objects, or gases, or people standing within the field, which explained, without a doubt, the world's increasingly off-center sun.

"Lock closing, now," Data called from the Enterprise's comlink.

Picard was looking straight ahead into brilliant sunlight, looking across tens of millions of kilometers of empty, airless space between Dyson's shell and a sun that, had turned inexplicably treasonous.

The door's levers began to eclipse it, like the lids of a giant eye slowly shutting. And then the light went out, went out utterly, because the nearest star shining down upon Dyson's outer shell was one hundred light years away.

The darkness did not last very long. The Darwin's photo multipliers were capable of looking down from the surface of Earth's moon and discerning the glow of a firefly in the Australian outback. They came on instantly, and the flattest plain in all the known universe was visible again. As Data double-checked and quadruple-checked his figures, calling out the results of his calculations from moment to moment,

Picard looked forward to being on the underside of that plain. The Darwin's time here would be too short, but he wondered if some bit of knowledge might be gained to prevent the coming destruction. It seemed unlikely, but he could hope.

"Lock opening again," Data announced.

After a second closing, and then a third, the Horta captain said, "Open again, Data. We'll take the Darwin in and try opening the lock from inside with the combination."

"You have it now, Captain Dalen," Data said.

As the lock opened, the Horta ordered half-ahead on impulse power. The Darwin eased forward, and entered the Sphere. As the ship continued forward and came around to exit, large land masses and bodies of water swept across the screen, spread across the incurving surface in full daylight. The lock was closing again as the Darwin came to face it.

Picard tensed, remembering the catastrophic exit of last time, when the Enterprise had fired upon the Jenolen as it held the lock open, beamed Montgomery Scott and Geordi La Forge out only a moment ahead of the ship's

destruction, and then slipped through the closing lock at the last instant. That had been too close a call.

"Opening signal sent," Captain Dalen announced.

Picard took a deep breath in the seconds before the lock responded, then breathed more easily. As the Darwin came out, Riker said from the Enterprise, "Now I'm sure you'll stay to the last minute, or you wouldn't have made so certain of your exit." If it works four times," Picard replied, "it should work when we need it."

"Not necessarily true, Captain," Data

said, "but very likely. Inductive reasoning is always a gamble, logically speaking, however small."

Riker said, "Inductive reasoning is often throwing your hat over the cliff and jumping after it."

"One more try, then," Picard said, "but this time we're going in for the duration."

Riker was becoming uneasy, increasingly so, as the others aboard the Enterprise wished the Darwin "good luck" or "Godspeed" and a "safe return." He did not like such farewells; they sounded like a challenge to fate. They made him think of others who had said

the same timeworn phrases to people they would never see again.

At last, thinking of the Great Scott Sea, and all the other bodies of water inside Dyson, Riker recalled another kind of good luck message.

He leaned over his console. "Don't get your feet wet," he said to Picard and the others aboard the Darwin.

Transit of Darwin

THE SPHERE'S LOCK, closed again. Geordi, sitting aft of Captain Dalen on the bridge, monitored from an engineer's station as the Darwin went forward. His

console and display screen were nearly identical to his bridge station aboard the Enterprise, except for being closer to the floor so as to be more easily accessible to a Horta. He was sitting on one of the Horta saddles, which had turned out to be more comfortable than he had expected; at his right, Lieutenant Kar, one of the engineering officers, sat in front of another console.

Slowly the lock opened, and the ship entered the great lighted space.

"Darwin to Enterprise," Captain Dalen said over the subspace link. "We are safely inside and proceeding sunward."

"Reading you clearly," Data's voice replied.

"Captain Picard," Geordi said, "we've just picked up an anomalous gamma ray flare, but it's not from the sun. One GeV, precisely-meaning proton-anti-proton annihilation. I'm seeing an apparent antimatter engine burn near an Earthlike planet orbiting some seventy million kilometers from the sun- planetary period, some two hundred and twenty-five days. And there's something else, Captain. A moon, thirty-three hundred kilometers across, coming around the far side of the planet."

"Full impulse ahead," Captain Dalen

said.

Geordi looked up from his equipment, realizing suddenly that he had been addressing Captain Picard and not the Darwin's captain; but he saw from the expression on Picard's face-a slight flush in infrared-that he should let the error go this time. He nodded back, then turned again to the instruments.

As the distance to the planet diminished, and the gamma ray source swelled on the Darwin's view-screen, Geordi noticed from the readings on his console that there was something familiar about the continents and oceans on this star's only natural satellite, and suddenly he

understood what he was looking at

"Captain Picard," he said excitedly, and then, "Captain Dalen, the surface features of the planet ahead are the same as those on the inside of the Sphere! The builders apparently projected large the features of their own world." He put the forward screen into a quick three hundred and sixty degree sweep to illustrate the fact.

On the world below, and in the sky above, the Great Scott Sea was unmistakable-circular and huge, as one might imagine the eye of God. Geordi supposed that it must originally have been an asteroid crater, bigger than

Earth's so-called dinosaur killer, bigger than the Great Hudson Bay. Flooded for more than a billion years, it had held sway as the homeworld's most dominant geologic feature, until its offspring projected it onto a surface larger than some planetary orbits.

"Further evidence?" Picard asked.

"Further evidence that the Dysons did indeed enclose their original sun when they built the Sphere," Geordi replied.

"And they kept their homeworld," Captain Dalen added.

"Perhaps out of aesthetic, or even

sentimental reasons," Troi said; she was seated on a cushion at the Horta captain's right.

"Yes, very likely," Picard said from his seat near the Horta helmsman, "since to keep the world meant setting aside materials that would have contributed to the building of the Sphere. It was a deliberate choice not to use up their original world. Do you hear that, Data?"

"I agree, Captain," Data answered on the sub-space link.

"I assume that you would wish to take up an orbit around the planet?" Captain Dalen asked.

A surprising reading suddenly came up on Geordi's scans. "Captain... Dalen," he said, "that world's moon: It's mass is much too small for a solid body. It has to be hollow. Has to be."

"Lay course for the satellite," Captain Dalen ordered.

"Aye, Captain," the Horta helmsman answered.

Far astern of the Darwin, Data tested the lock again, flooding the bridge of the Enterprise with the sapphire-orange glow of a low mass flare star. He adjusted the lighting, now that he knew

precisely where to look. The off-center sun and the double world that orbited it were blue-shifting slowly but ominously toward him. Wheels within wheels. Data thought, recalling the words of the ancient Earth prophet Daniel. And here he was, looking upon a hollow sphere, orbiting a sphere, within a hollow sphere.

By his command, the giant levers began to close again; and before the doors shut out the light completely, his screens pinpointed and enhanced the signature of the Darwin's impulse engines. When he knew where to look, and how to look, the engine burn was just barely visible, scratching a thin veil of antimatter flame

and subspace distortion across the face of the sun. He watched proton-antiproton exhaust eclipse fusion; he watched the starship Darwin in transit of Dyson's star, and in his head he recorded it-all of it-and at that moment he had an odd sensation, a sudden conviction that he might be seeing the Darwin for the last time, that like the Flying Dutchman and the Mary Celeste, the Challenger and the Intrepid, no ship would ever again bear the name Darwin.

A strange group of associations, Data thought. This was what human beings meant when they talked of feelings of foreboding, or of being "spooked."

Data wondered why. Perhaps it was the very vastness of the Sphere, into which a tiny speck like the Darwin-or the Enterprise-could so easily disappear and end up traveling for eons, like a ghost ship, without ever finding its way out again. Certainly, the loss of any ship was one of many possibilities, nothing more, but it seemed, at that moment, that he was watching the last of her.

As the Darwin settled into orbit around the alien moon, Picard saw on the forward viewscreen that its surface was a smooth eggshell finish. There were "dust" particles clinging to the shell-bundles of heavy helium clumped together with carbon isotopes and other

residua of the solar wind. No signs of cratering, however. No meteoritic debris of any sort. Of course not. Every chip of ice, every interplanetary pebble, had been swept up in a cyclopean construction project.

"No sign of an entrance," Geordi said from his bridge station aft.

"What did they do, seal it up?" Picard asked.

"It seems that way."

"Or the entrance is expertly hidden," Picard suggested.

"We may not have time to find it,"
Captain Dalen said.

Picard nodded agreement, and said,
"Then we should take one of your
shuttles down to the surface and see if
we can break in."

"Ah," Captain Dalen said. "After a few
weeks of ceramic foam and false granite,
my crew will be more than ready for a
new flavor."

"It may be a surface that even a Horta
can't eat through," Picard cautioned.

"We will see if that is true. Horta can
synthesize what may be needed, and

walk through."

It still startled him, from time to time, to think that Hortas thought of "walking through" solid objects. It was their physical heritage, of course, but something in the way Captain Dalen had spoken made him think that she was also trying to make another obscure Horta joke." I know you're sorry not to be going with us," Picard was saying to Troi, "but I should leave one member of my crew here, and you are the obvious choice."

"Of course," Troi said. She knew why; more time spent with other members of Captain Dalen's crew would give her

more familiarity with their emotions, with what was normal for them. Neither protocol nor standard procedure required her to accompany Picard and La Forge to the shuttle entrance, but she had been picking up some disquieting sensations from Captain Dalen. That was yet another reason for comparing with other members of her crew what she sensed inside the Horta commander.

The shuttle hatch was already open, and Troi noticed that the interior of the shuttlecraft Balboa had seats suitable for humanoids as well as saddles for Hortas. Captain Dalen's pilots were already aboard the shuttlecraft. For her away team, the captain had brought

along Lieutenant Jee, introduced earlier to the Enterprise officers as a "young archaeologist." Two other Horta officers, Lieutenant Sherd and Ensign Kodo, completed the team. Picard and La Forge greeted the Hortas, then followed them into the shuttlecraft.

Troi stepped back as the Balboa's hatch door slid shut. She had picked up that same disturbing sensation again, and from all of the Hortas present this time. Anticipation, curiosity-those expected feelings were there, but she could also sense them in Captain Picard, in Geordi, inside herself. Something else tinged the feelings she was picking up from Dalen and the other Hortas, a kind of reckless

ecstasy, almost a mania, a lust to embrace the unknown.

The feeling faded. Troi told herself not to jump to conclusions about a species she had encountered for the first time so recently. But what she had felt suggested that the Hortas might be too quick to rush into dangerous situations in order to satisfy their powerful curiosity, and that, she knew, could endanger this mission—and all of their lives.

Moments later, the shuttlecraft Balboa was skimming low over the alien moon.

"Still no sign of an entrance," Geordi observed. Indeed, his surface scans had

failed to reveal a seam small enough even for a virus to squeeze through. "It really does look as if they deliberately sealed it off."

"Were they trying to hide something?" Picard mused.

Data called out over the link: "It is always perilous to ascribe motives to an alien species, Captain."

"Quite right, Data. So we've little choice but to go in, assuming we're all curious enough."

"Oh, I think we're curious enough," Captain Dalen said.

"I certainly am," Geordi added, wanting to explore as much of this engineering marvel's interior as possible." Set us down, then, Mr. La Forge," Picard ordered, then glanced with obvious amusement at the Horta archaeologist saddled beside him, like a royal rock on display in a museum.

Their first landfall in the Dyson Sphere seemed straightforward enough. The Balboa's docking tube would form an air-filled path to the moon's surface, and Captain Dalen's four-Horta away team would simply "walk through" the crust underneath, thus causing the least possible amount of damage to the

structure, and Geordi hoped, setting off no alarms. On the other side of the shell, there was atmosphere, cold but breathable. Geordi had dropped two walnut-sized probes on the surface. The Hortas would survive inside, he knew. The sensor readings told him so.

He swept the Balboa into a graceful arc, as if it were a helicopter, then slowed to a hover, flashed his molecular strobes, and landed so gently on the moon's equator as to leave its thin veneer of helium-three "dust" undisturbed.

"Start drilling," Picard said. Geordi began to hope that Horta saliva would be enough; this sphere was not sheathed

in carbon neutronium, which gave him a clue as to why it was here, and why it was sealed up.

"We're attached," Geordi said. "Horta entrance now open, and something like bedrock is below us, at least thirty meters of it, then topsoil. That's what my readings say." Lieutenant Jee said, "I will walk through first." Her amplified voice was slightly higher than that of Captain Dalen.

Jee and the Horta captain, followed by Sherd and Kodo, slid ahead of Picard and Geordi into the shuttle's service bay, where a double-sized manhole led down to the moon's surface. Jee and Dalen

sank away the moment they touched the ground. The other two team members fell in quickly behind, examining the shaft as they descended, shoring up the walls wherever it seemed necessary. Alice's fall down the rabbit hole had been much easier, Geordi thought, but the Horta captain seemed to think nothing of it.

After a few minutes, Geordi saw a circle of red light wink on at the bottom of the well. It winked out just as suddenly, and he realized that Lieutenant Jee was coming back up.

As she neared the exit, the Horta cried out, "Confirmed-human suitable

atmosphere inside! But dark. Red dark."

"So how was it?" Picard asked, and the Horta's answering shudder reminded Geordi of a shrug.

"It was delicious!"

Contagion

THE HORTA HAD made their first landfall thirty minutes before. Now they stood, hard as it was for Captain Dalen fully to accept the reality, on the inside of a sphere-topsy-turvy-inside another sphere-topsy-turvy. The world within the world reflected only the longer, redder wavelengths of light. The weak

red light was overpowered by black shadows; and, although she could not see them, vibrations in the ground permitted her and her team to feel strange shapes trying to move secretly forward and back in the dark. So far, they seemed to be keeping their distance; but until Picard arrived with reinforcements, Dalen had decided that she and her Hortas should cluster together, hold their ground and, as the humans would put it, be steady as a rock. There were no life forms here other than plants. So the scans had shown. Dalen did not want to remind herself that, before they had been run through that new Federation computer, the first scans of the inside of the Dyson Sphere had revealed no life

signs at all.

"Curiouser and curiouser," as the captain of the Enterprise was so fond of saying. Does he really understand how much curiouser this gets? Dalen thought, and should I tell him?

To begin with, there was the problem of similarity versus identically. In spite of the Sarpeidan and Dyson quantum spacetime anomalies, as near as Dalen's crew could tell, every electron and proton in Dyson's hull was identical to every electron and proton everywhere else in Dyson, and everywhere else in the universe. In physics, the sameness of the individual bends in spacetime that

built quarks and gluons and beget protons was absolute sameness, a sameness very unlike Data and his "identical" twin brother, unlike any two of the insulin molecules that ran through Picard's veins. Though similar, it was impossible to make any two androids or insulins absolutely identical.

And why is this? Dalen thought. "Why," she said aloud, "are all protons, for all their infinite opportunities for uniqueness, exactly the same? Why all electrons? And neutrons?"

The other Horta seemed unsurprised by her sudden questions, but then they were all undoubtedly brooding upon the same

matters as she was.

A long time before, as Picard and his species measured time, the human physicists John Wheeler and Richard Feynman had theorized that every proton was identical to every other proton because there was really only one proton in the entire universe. In this case, it simply raced back and forth in time, again, and again, and again-appearing to show up everywhere at once. Starting off from the Big Bang, it would be shooting through Dalen's present, where she might catch a glimpse of it in Data's fingernails, or in Picard's insulin, or in Dyson's rivers, before it bounced back from the remote future and reappeared in

her present as a proton moving backward in time, where some distant corner of the universe, or the antimatter pods of the Darwin and the Enterprise, would perceive it as a forward moving antiproton, before it reversed course, again, from the Big Bang. This being true, the same would hold for all the anti-electrons coursing through Data's positronic brain.

Wheeler and Feynman had buried their theory, or so those human physicists had thought. And then the discovery of subspace had made spacetime itself a cosmic free-fire zone. And now the discovery of subspace anomalies, Dalen mused, had made all things possible.

Was it possible, now, she asked herself, that a proton bouncing back from the future could dictate the present?

Yes.

Was it possible, then, that the present could dictate the past?

Oh, yes.

"I can picture it, now," Dalen said, suddenly wanting to share her insight with her sisters and comrades, "one antiproton and one positron in all the universe, running head-on into the proton and the electron at the bridge of time, at

the moment we call the Big Bang, thereby guaranteeing that the universe will be created."

Sherd, Jee, and Kodo were silent for several moments. Then Sherd said, "Is it possible, then, that whoever created subspace planned it that way- perhaps even tampered with the manner in which the Big Bang would occur, reshaped the cauldron of creation?"

"Yes," Dalen answered. "I believe there has been a great deal of tampering; more than any of us may ever realize."

CAPTAIN'S LOG, STARSHIP
ENTERPRISE IMPACT MINUS 12.5

DAYS EGRESS MINUS 9.5 DAYS

Dalen Base was established only twenty minutes ago. My chief engineer has confirmed for Captain Dalen that the moon has its own subspace anomaly- which acts as a defensive barrier against our transporters. The Dysons made sure to button this place up tightly. Luckily for us, they did not anticipate Hortas. Captain Dalen's away team has saved us hours, perhaps a full day of work. Still, we may have to move even faster than I had hoped.

Data tells me that the larger Sphere is accelerating, and if one watches very carefully, one can actually see the Great

Scott Sea moving perceptibly nearer. On the Sphere's walls, we cannot discern any inertial effects whatsoever arising from the acceleration.

On the wall opposite Great Scott, however, on the side moving away from us, the sacrifice to inertia is already horribly apparent. The land-masses there are turning white under the retreating daylight. Probably for the first time in Dyson's history, water is crystallizing out of the atmosphere. If the retreat continues, the air itself may eventually flow liquid, then turn to sand.

How strange that the first snowfall should come to Dyson, now that it is so

close to the neutron flame.

Not much time left

The hole in the moon had been cut at a forty-five degree angle, so it was possible to slide part of the way, in the direction that a sixth gravity would present as "down." But after a point, the gravitic direction reversed to "up," and Picard knew that he would emerge onto the inner surface of the sphere at four-fifths Earth gravity. Both he and Geordi were wearing traction soles and gloves, in case it became necessary to brake or climb.

"Ready?" Picard asked.

"Lead the way, Captain," La Forge replied.

Picard went in head first, and saw at once that the slide was slow enough to make braking unnecessary. He slid along slowly, feeling his way down toward the dim red light, and the opening grew larger. After twenty seconds he stopped, feeling the increased gravity in his heavier limbs.

"Mr. La Forge?" he asked.

"I'm right behind you, Captain."

Picard started to pull himself forward

with his hands, then pushed with his feet. He was now climbing. He pulled himself along for what he estimated were about three minutes until he was at the opening. Grasping the edge with both hands, and pushing with his feet, he climbed out of the hole, sat down on the edge, and rolled away to one side.

He stood up and surveyed a dull red landscape. It was rocky and barren, save for a small stand of trees and bushes nearby, and similarly colored patches on the up curved horizon. The trees were bare-dead, apparently. Geordi climbed out and stood next to him, and they looked up at a miniature red sun, radiating its pitiable energy into the

hollow.

The Horta away team was waiting for them. "Air seems dusty," Picard said, and exhaled a cough that, in the surrounding atmosphere, became a breath of warm condensation. "Low oxygen, too." This was deliberately sealed up," La Forge said. "The Dysons must have seen this place as a failure."

"That sun," Picard said. 'I'll bet it's artificial, and they couldn't get it to work, so they continued by enclosing their natural sun."

"No," said Captain Dalen. "I think this was all a test. A practice sphere, if you

will."

"Could be," Geordi acknowledged. "It strikes me that they were looking far ahead. When this moon was constructed, all those missing stars and planets were probably still visible in the homeworld's night skies."

As Picard's eyes adjusted, he started to see by the red light. The curve of the inner land swept away from them in all directions, revealing a craggy, pitted, desert interrupted by distant oases of oddly shaped trees. More than a thousand kilometers away, lay the nearer shore of a circular sea whose center was located almost on the far side of the sun.

It was the same continental and oceanic contour he had seen on the two worlds outside. It was the Great Scott Sea writ small.

Peering upward and seaward, Picard became aware of a sharp clicking noise, then noticed that some five hundred meters away, the rocks seemed to rise and move forward.

"Do you see that?" La Forge whispered in the redness that seemed to belong to some hell at the end of time. Then he began to scan with his tricorder. "Yes," Picard replied.

"Definitely biological, with no implant

modifications." The engineer turned in a circle, penetrating the gloom with his visor. "They shouldn't be there, but they are."

"Biological life forms," Dalen said. "I was afraid of that. The Federation had better think about upgrading all of its scanning equipment."

"They're moving toward us in a circle," Geordi said.

Picard and La Forge stood back to back. Slowly, Picard began to see the creatures: tall, long-legged bipeds that reminded him of stick figure marionettes. They moved slowly in the red

wilderness, reminding Picard of ancient wooden plows struggling to furrow the ground.

"I don't think we're going to communicate with them," Captain Dalen said.

The clicking sounds grew louder and sharper.

"It's not a language," Geordi said, examining his tricorder. "At least nothing we can translate."

"Signals-very simple, primitive signals," observed Picard.

"Yes," said the Horta archaeologist Sherd. "We've got a partial interpretation: something like, 'The hunger, the hunger,' over and over. That's as close as we can come."

"It would be a hard, restricted life in this sphere," Picard said. "This may be what... devolved...from the life forms that stayed inside. A very small population."

"And apparently a very hungry population," Captain Dalen said emphatically. "And not necessarily small. We happened upon them in the very first place we popped up, and they could be spread over an area as large as

North America. And I'll give you a fair bet it's not rocks they hunger after."

Geordi increased the range on his tricorder and shook his head. "Too right, Captain Dalen. I'm beginning to worry that charcoal broiled humanity may be the flavor of choice."

"Then you should leave?"

"I think we'd better. Good safety tip."

"We'll come after you," Captain Dalen said. "If these creatures don't regard us as tasty, better to have us between them and you."

A dusty wind came up as Picard followed Geordi toward the opening in the ground. The marionettes stopped, and seemed to sway slightly. Then, as suddenly as it had come, the wind was gone.

The clicking resumed.

Picard and Geordi reached the opening and looked down. A faint light showed from the bay of the shuttle.

"You first," Picard said.

La Forge nodded, sat down on the edge, and slid away.

Picard waited, then took a last look at the desolate landscape beneath the red dwarf. Here all hope, it seemed, had ended, and these poor devils had somehow survived to pay the price of the experiment in Dyson Sphere construction. Why had this been permitted? Why had no one thought to sweep the surface clean before abandoning it... ?

It occurred to him then that if these life forms had survived here, however wretchedly, then there might be others lost inside the vastness of the Dyson Sphere. He could not assume that any other beings would be any more friendly than these-and others might have some of

the resources of the Sphere's builders at their command.

The circle of stick figures was closing now, like a noose.

A sudden gust of wind caught his cheek, scraping it with a burst of dust. Picard touched his face, and saw blood on his fingers.

"Hurry!" Captain Dalen called out. "They look as though they might be considering the virtues of a silicon-based diet."

Captain Picard sat down on the edge of the opening and readied to slide down,

then took a last look at the dwarf sun. Something black was moving across its surface, in a fast, close orbit as he watched; it reached the rim and disappeared

He was out of time. The alien figures were only a few tens of meters away. He let go and slid, feet first, into the opening. At first it was quick, then "down" became up and Picard realized that he would have to turn around to climb. He managed it after two tries, and in a few minutes was ascending through low gravity, into the brightly lit shuttle compartment.

"There's something else in there," he

announced, thinking again of the catastrophe that was coming, and how little time there was to explore. A decade might not be enough merely to visit all the important places on the inner surface of the sphere he had just exited, and no one would give him decades, unless somehow the Dyson Sphere could be saved. "It's in close orbit around the red dwarf. Might be a vessel." And now he had another problem-the presence of biological life forms that might be a danger to him and the crew of the Darwin.

"But we'd have to get the shuttle inside," Geordi said, "which means a bigger hole. Or find another way in."

"We have to decide," Picard said,
"whether to continue here or to spend
our time elsewhere."

"What did it look like?" Geordi asked.
"Do you suppose it was an old starship
that found its way in and got stranded?
Or just something the Dysons left
behind?"

"Difficult to say whether it was a vessel,
a small moon, or... or, who knows
what?"

"Mostly who knows what," said Captain
Dalen, as she hauled herself out of the
pit. "I saw it, too. It's another sphere,

Captain. About thirty-three kilometers across."

Picard frowned. "A prototype of the prototype?" he asked.

"A sphere, within a sphere, within a sphere," sang the Horta as Lieutenant Jee emerged from the tunnel. "And who knows? Is yet a smaller prototype hidden within the prototype's prototype?"

"Or another within that?" Picard wondered aloud. "And another, and another, each with its own dwarf sun and a replica of the Great Scott Sea? If we can find the first prototype, and if it is small enough to be contained in the

shuttle bay of the Enterprise, the information we could take with us would be priceless."

"Those are very big ifs, Captain," La Forge said.

"Beautiful ifs, Geordi."

Sherd and Kodo were now exiting the tunnel. "Riker to Picard," a voice called.

"Picard here."

"Captain, we've just sighted a ship coming around the far side of the homeworld. It's in orbit, and not putting out many signs of power. But it is

equipped with cryocontrolled antimatter pods. I presume it's the source of those gamma flares you detected. No signs of a subspace cooling system. It uses space itself as a dump for engine heat."

"A real museum piece, then."

"Yet brand new, in working order," Riker said, with what sounded like admiration. "The ship's almost all engine. Payload capacity: no more than two dozen people, living in very cramped quarters."

"Can you see them?"

"The Darwin's scans do confirm life

forms, Captain."

Picard considered this for a moment, realizing that he was now faced with the fact of intelligent, space faring life that would die in the next two weeks. He wondered if they could be aware of the coming destruction. To hide from them would protect the Darwin; to keep at a distance from them would eliminate the risk of both conflict and cultural contamination. In the vastness of the Dyson Sphere, the life forms aboard that alien ship might simply assume that the Darwin and its crew were only yet more denizens of Dyson that they had not yet encountered.

But he knew that he and his human and Horta colleagues could not try to evade the unknown beings. There was too much to learn, and possibly even a chance to aid them if they were friendly. Still, he and Captain Dalen would have to be cautious.

"Picard to Riker," he said, "we're coming back to the Darwin immediately."

"Understood."

He looked at the tunnel-which had to be plugged before the Balboa pulled away, lest they create a geyser on the moon's surface and kill, a little sooner,

whatever still lived near the entrance. He wished he could learn more about the troglodytes in the red wilderness-for he could not shake the nagging feeling that his and Captain Dalen's first impression of them had been as far off the mark as Captain Kirk's first impression of the Horta and their world. And what about the mini-spheres, if such existed? He wished he could think of his departure from the moon as temporary, but he knew with reasonable certainty, as the entrance was sealed and the airlock detached, that he would never set foot here again. Yet he allowed himself to risk thinking-to risk wishing-that Dyson's peculiar movements were an awakening, of sorts, and that the Sphere might

somehow protect itself from the coming onslaught. If that was what was happening, then Dyson was at best putting up an imperfect defense, but Picard allowed himself the little victory of hoping in the persistence of a will to live.

Where there was life, there was hope, even if certainty was an elusive gift.

"What do you make of it?" Picard asked from the bridge of the Darwin.

"My guess is they've been hiding from us," Riker said from the Enterprise, "but have now decided to come out and show themselves."

"Or it's chance, and they can't help being seen."

"That seems most likely," Data said over the link. "We have had no indication of an overall command structure in the Dyson Sphere, no general awareness in any center of what is happening to it."

The ship on the screen was indeed all engine: two magnetic rings separated by several kilometers of tether, reminding Picard of a flying spider's web.

Suddenly faces appeared on the screen, as if someone had assembled them for a group photograph. As Picard gazed into

a half dozen pairs of alien eyes, he tried to make out the nature of the staring expressions. The eyes were humanoid, set in a humanoid face that seemed vaguely feline, but with only a hint of fuzz on almond-colored skin. There was no hair, only black fuzz, neatly shaved into a skullcap, it seemed. The ears were round.

Picard asked, "Troi, can you pick up anything from them?"

"Very little, Captain, but I don't think they're either a predecessor or offshoot of the Borg."

Picard said, "I am Captain Jean-Luc

Picard of the Federation starship Enterprise. Can you understand me?"

The faces on the screen seemed to smile, as if expecting that their picture would finally be taken. The face closest to the screen seemed confused by his words, then said, "Do you... know... our speech?"

Picard waited a moment, then said, "No, we are using a translator device. The translation may not be perfect." He identified himself again." It is working," Troi said, "which means the language must have some far-back link with others in the translator."

The translator rarely failed to work, Picard reminded himself, but one day it was likely to encounter a race whose language was inaccessible.

"Captain," Data said, "I see from your scans that these people carry no implants or other technological variations in their physiology. They are purely biological."

"Unusual," Riker added, "for a species with that much command of technology."

"I would like to ask a question," Picard said to the assembly on the screen.

"Would you tell us some of your history?"

"History... ?"

"Your time before this," Picard explained, "what has happened to your people. Who are you?"

A look of what seemed to be understanding crossed the alien's face. "We call ourselves the Dooglasse," he said.

"Tell us of your... times," Picard said.

"We... of the Dooglasse... stand alone," the alien speaker began. "That is our way... whenever too many Dooglasse, some must leave..."

Picard realized that this meant migration to other parts of the Sphere's surface.

"Did you build your ship?" Picard asked.

"Build?"

"Where did you get the ship?" Picard asked, guessing the truth. The history of this race was lost to them. Far in the past, they had probably turned away from the great technology of the sphere, to live much like the marionettes of the red wilderness: as (presumed) troglodytes, squatters on the inner surface. But the Dooglasse inhabited a much larger surface area. Whenever

populations expanded, fell into disagreement, or threatened one another with war, there would be virtually unlimited territories into which the dissidents would migrate. They had more than a couple hundred million Earth-sized territories from which to choose.

"We... repaired the ship," the alien speaker continued, "to go... home."

This was a reasonably articulate group, Picard concluded, possibly among the youngest of the dissident lineages inside Dyson. They seemed to have recently rediscovered antimatter propulsion within the great open space of the

Sphere.

"Home?" Picard asked.

The alien pointed down. "This world... we circle... we believe to have been our home... not the great curving surface. We have been mapping that... whence on the great surface have you come?"

Picard realized that they believed him to belong to another group from the inner surface. The Darwin, the Enterprise, and the neutron star had arrived in time for a Dyson Renaissance of sorts, a new beginning among some of those who had come out of the Sphere's historical amnesia.

It would be best not to volunteer too much information about himself and his crewmates, for the moment. He looked back to the friendly Dooglasse on the screen and said, "We wish to meet with you... in a short time... and tell you about ourselves."

The Dooglasse speaker nodded. "Yes, perhaps on the world below. We may explore together?"

"We will hail you again in a short time," Picard said, knowing that he needed some discussion with his officers. He found himself liking the Dooglasse speaker on the screen, and it was

difficult for him to believe that this life form might be one of the unchanged ancestors of the Borg. Again, the coming destruction of the sphere elicited pity in him for the races that would perish-races that no one would ever know had perished.

Q, he recalled, had once warned humanity that the universe was not for the timid, for it came with no guarantee that it would always be fair. A few years earlier in Q and Horta years, the Book of Job had warned humanity that the universe was not for the timid, for it came with no guarantee that it would ever make sense.

He raised his hand in farewell and the screen blanked; and he reminded himself again: Where there is life, there is hope-not as something that followed inevitably from the mere fact of life, but strongly from life's refusal to "go gently into that good night," as the poet said. It just wouldn't go, wherever it could. In whatever way possible it filled the niches of nature, lit up with intelligent self-awareness, and reached out to create its own niches. Life prevailed.

"As we Horta have learned," Captain Dalen said in the Darwin's small conference pit, "the prevalence of genetically compatible humanoid life in the galaxy-at least in our experience of it

so far-is strong evidence that indeed one ancestral race arose, then dispersed, leaving countless colonies and centers of intelligent life behind in various solar systems..."

The face of Data appeared on Dalen's screen. "Perhaps it was that very dispersal," Data said over the link, "that precipitated the decline. Vulcan, Klingon, human-their cultures all seem to have cultivated an amnesia about their common origin."

"Except perhaps for a hint, here and there, in ancient religious texts," said Captain Dalen. She was about to say something else, but instead she cut the

thought short, shifted her weight on the floor, and gazed at Captain Picard, who was seated on a cushion across from her. The Horta had no need of chairs or saddles for themselves in this conference room, but Picard and his two humanoid officers looked comfortable enough on their cushions. Conference screens jutted out from the floor in front of all of them. Troi, the female humanoid, leaned toward her small screen.

The captain of the Enterprise looked at the Horta strangely, as if he were about to shiver. He gave the image of the android on his own conference screen the same look.

"Maybe we should not think of it as a decline," Picard said. "Perhaps they thought it best to spread themselves thinly, to insure a long-term run of diversity. One might see that the peoples of the Sphere are also spread thin, in a smaller but not as beneficial version of our humanoid galactic Diaspora."

"Or," Riker said from the bridge of the Enterprise, "maybe the galactic dispersal was an attempt to flee something, an old enemy. It may be that this Sphere is the first and last of its kind, coming into existence right at the time of a dispersal of races, perhaps even precipitating it."

Above the conference pit, a viewscreen showed the neutron star, wrapped in slowed time. It was so massive that a teaspoon of it outweighed the Darwin and the Enterprise put together, yet it was wider than most starships, and, as it spun at thousands of revolutions per second, it appeared to drag little frames of time and space after itself with the same ease that tornadoes swept up pebbles and grass.

Captain Dalen had learned that all humanoid species, at some point in their history, had come to believe in a Great Father, or a Great Mother, who had created the universe and watched over

it. She had come to regard this as a quirk unique to warm blooded, placenta! species; but as she watched the screen, she observed that on opposite sides of the neutron star, identical pairs of simultaneously created gamma photons, racing away from one another at light speed, somehow "knew" what each was doing and simultaneously did likewise.

Captain Dalen believed in time-dragging and sub-space. To believe that Troi was a psychic or that Jerusalem was a place of miracles made her feel timidly agnostic by comparison. And to believe that someone had created a world so vast that there was no hope of discovering it wholly-what did that

make her? And to believe that a man had created Data in the image of man?

The Horta nodded excitedly and called across subspace to the Enterprise: "You and I and the Sphere, Data-we have more in common than the fact that, at one time or another, we have all seemed to be the last of our kind."

"We have all been molded from silicon," Data called back, having obviously made the connection in a microsecond. "And we were all fashioned, I presume, by carbon-based species. And, Captain Dalen, are you suggesting what I believe you are suggesting, namely that we are artifacts, all three of us?" Picard shook

his head. "Is there nothing in heaven and Earth that is not archaeology anymore?"

"Probably not," said Captain Dalen. "My theory of Horta evolution is that we originated as self-replicating mining machines.-Like Data, we became self-aware. Like the Sphere, we were either abandoned by our creators, or we outlived them."

Or killed them, Dalen thought to herself, deciding not to say that aloud.

"And who might our neutron star thrower be?" Picard said. "Some fossil remnant of the Borg collective?"

"Perhaps something more alien than the Borg," Troi offered, "intelligence vastly different from the run of humanoid life. It might have seen the proliferation of humanoid genotypes and decided to prevent it."

"As you would say," Data replied from the screen, "the horse is long out of the barn, with humanoid life very widely dispersed, but this Sphere is still an eminently vulnerable target. It may also be that the old enemy no longer exists, or has vastly changed its ways, and that this is an old vengeance weapon, still working one last time."

"And who would have destroyed the old

enemy?" Riker asked.

Picard had an answer at once. "Why, the Sphere-builders, I would think. The early Borg."

"So," Riker said softly, "we may have something to thank them for after all." Dalen let out her equivalent of a sigh. "I wouldn't be so sure of that," the Horta captain said.

Captain Dalen had been called to the bridge, apparently on a routine matter. Troi and La Forge followed her from the conference pit. Picard remained on his cushion, staring at that part of the wall screen display showing the relativistic

cannon-ball still on course; and he watched Dyson's latest spurt of acceleration, clearly a defensive maneuver.

I wouldn't be so sure of that, the Horta had warned.

I guess we'll know soon enough, Picard told himself. Two enemies, one ancient and seemingly extinct, the other so long gone that it was archaeologically invisible, were coming suddenly to life.

An archaeologist's worst nightmare, Picard knew, was to come back from the wilderness with no results. Here, he did not worry about bringing back too few

results. No. His concern here was over too great a feast of them.

Songe D'autumn

CAPTAIN'S LOG, STARSHIP
DARWIN

IMPACT MINUS 12 DAYS EGRESS
MINUS 9 DAYS

During my encounters with various human beings, I have learned that a number of them harbor a very deep fear of transporter technology, a fear not so much of death as of being left alive in a hopelessly jumbled state. Data calls it bad programming; but we of Janus VI all

share the same fear. Nevertheless, Federation regulations dictated that our ship be equipped with the infernal devices.

I'm glad for that now.

An hour ago, Geordi La Forge modified a new V.R. Visor to fit my head, and transported a large probe-about the size of a walnut-some three hundred kilometers above the sphere wall. It was, for me, like materializing in a spacesuit above the inner surface of Dyson-above that impossibly flat surface. Even from three hundred kilometers away, even through the eyes of a pebble that was speeding over

deserts and rainforests at ten kilometers per second, I could see a road passing below, and a city with ship wakes going out from its harbor, and what had to be the vapor trails of high altitude, hypersonic jets. And how many more cities lie undiscovered in this country? I want to land there myself, on the great incurving yet impossibly level wall. But Captain Picard has other plans.

PICARD SAT on a cushion in the Darwin's small ready room, an odd, granite chamber in the Horta hive-which had graciously been provided to him by Captain Dalen. A slab of rock, something like a table top without legs, sat on the floor to hold the small screens

and controls.

It was ironic, Picard thought, that after progressing beyond the abuses of market economies, Earth's clever and humane Federation should find among the stars the ultimate corporate nightmare, the Borg, who literally incorporated anything that moved and had something to offer, and destroyed anything that did not. The Borg appreciated any good thing they encountered. He had to give them credit for that.

Presently, as he turned his attention away from the killing star to the world beneath the false moon, as he looked at the deep scans of a hauntingly beautiful

city dating back more than a thousand centuries and entombed beneath a hundred meters of volcanic ash, he wondered if this was really one of the Borg's beginnings.

A full day was gone from the available thirteen before the neutron star struck, and with every passing hour decisions would be made about what should be explored, what data gathered, before his group had to abandon the Sphere. Now that they had made contact with the Dooglasse, they would also have to consider the possibility that other biological life forms still lived here, and be on guard against any that might be hostile.

Anything that could be added to the Federation's knowledge of the Borg was important enough to override other avenues of exploration. As Rome had wished to add to its knowledge of its chief rival, the north African city of Carthage, so the Federation had to expand its knowledge of the Borg, with however small increments. Clues to their ancestry, and to the ancestry of all humanoid species, might arise from the Dyson homeworld below, or they might lie somewhere in the language of the Dooglasse, buried as deeply as any physical remains.

An electronic beep at his ready room

door interrupted his reverie.

"Come," Picard said.

The door opened and Troi entered. "One of the Dooglasse has offered to go down with us to the city," she said. "It's certainly worth a few hours. It's probably the oldest city in all of Dyson, and it's remarkably intact. No other area has turned up from our scans to offer any greater interest."

"Then we're going," Picard replied. "If we have time enough to explore only one square block of the homeworld, especially with the help of one of the Douglasses, this should be it."

"We have so little time here," Troi said, stating the obvious, "that one really wonders what to see first."

"One place after the other, until the little time we have runs out. Our decisions are limited, and some of them are going to be very hard."

"I know," Troi said. "What can possibly become of the Dooglasse? What can we tell them, Captain, if anything? How do you tell an entire race that they're doomed?"

Picard left his painful answer unspoken: You save them, or else you tell them

nothing.

Forty Hortas were now on and inside the Dyson homeworld. Picard listened as Jee and Sherd reported that the city appeared to have been unearthed and reconstructed by no fewer than three successive civilizations-each, in its own turn, entombed by the same volcano. The youngest of those civilizations pre-dated the false moon (and by implication the Sphere itself) by more than a thousand years. It had left behind what appeared to be restaurant, on whose flatware a set of oily finger smudges looked as if they had been placed there by a Dyson homeworld only yesterday, although the utensils had to be at least several

millennia old.

Each hour, Picard called down the same question: "And how does the excavation go now?" And always Captain Dalen gave the same reply: "Delicious. Delicious."

Picard was anxious to stand by the Horta's side. He felt as if he were being held captive aboard the Darwin, confined to looking out on the universe of Dyson only through large bridge screens or the ready room's desk screens, while discussing emerging logistics problems with Data.

According to the android, Dyson's

peculiar motion and the relativistic gunshot were probably the birth cries of open warfare. Warfare between titans. Data believed that the two starships might soon get caught in the crossfire and be forced at a moment's notice to ride the shockwave.

Yet because of the great distances involved, it was a shockwave that moved, from a human perspective, in slow motion. The neutron star fell toward Dyson like the minute hand of an enormous clock, though it, covered more than seven Earth diameters every second. There was actually time to sightsee. Or so it seemed. Or so Picard hoped.

"We'll stay as long as we can," he said, finally. "I'm going down to the surface."

"That may not be wise," Data said from the Enterprise. "We may have to leave quickly, now that Dyson has become unpredictable."

"Dyson has always been unpredictable," said Picard, "by sheer definition."

"But never so unpredictable as right now."

Data was correct, Picard had to admit. Under more ordinary conditions, he would have been willing to exercise

more caution. Now, however-"The clock is ticking, Data, and knowledge has to be collected quickly, or not at all."

Putting either a real trace of anxiety in his voice, or a very good imitation of it, Data now said, "I have studied your map scans of the buried city, Captain, and find that we can resolve objects as small as coins scattered on the floor of a still-unexcavated meat market."

On Picard's screen, an aerial view of the Cousteau and the Engford appeared, parked beside what appeared to be an open pit mine. "Captain Dalen's away team has exposed a town square," Data continued, "and a number of the streets

are accessible as tunnels, and are quite safe. Of course, I think the Hortas and our scans will give us all we need to know..."

"We want to see it for ourselves," Picard replied before Data could renew his recommendation against a physical visit.

Troi glanced at her captain, and Picard knew what she was thinking: You want to see it with your own eyes, feel the ancient dust with your own two hands, incorrigible amateur archaeologist that you are. Troi did not have to say it. They both knew that she was right. The amateur's love was too often absent from

the professional mind, and the hope of discovery that Picard knew within himself was one of the great pleasures of his life, to be neglected only at great peril to his mental health.

"Would you like to see this, Mr. Data?" Picard asked.

"Unnecessary, Captain. I have already gained all that I can from the scans. My interest is as great as yours, but without the feelings. I will study the scans for hidden relationships in the information." Troi said, "We should plan for a limited visit." "Quite right, Counselor. Say-two hours?"

"I think we can stretch it to four, Captain." Picard frowned, thinking of the Dooglasse, and how he and his crew and the Hortas might be the only ones to remember them and to record what they could of their civilization. "But where there is life..." he told himself.

As the dead city faded into view around him, Picard saw that he was materializing in a large square that had been swept, or devoured clean, of volcanic ash. Troi and La Forge stood near him, already surveying the alien site.

The Minoan-style houses stood like squat sentries, at the bottom of a freshly

hewn crater. The Horta were efficient miners; and according to Captain Dalen's theory, her people had been built that way. On every side, tunnels plunged into the walls of the pit, and on the land above, smoke from a dozen chimneys stained the otherwise clear blue evening sky. Picard realized that the Horta did not, as he had long believed, devour all the rock through which they passed. In their mining mode, much of it-no, most of it-was either being pressed into the tunnel walls, or vaporized and vented.

"No short-lived nuclides in the ash at all," Geordi said as he made a scan of a half-buried building. "And I'm confirming Captain Dalen's depressed

radio argon levels-with near-zero on the carbon-14 scale. I'd say it's every bit as old as she says it is, but it looks like it was buried here only last week."

Picard glanced up at a row of circular windows with their wood and bronze frames still in place. They reminded him of the eyeless sockets of a skull; and he supposed that he might be standing in the square at Thera, ancient Atlantis itself, on the day Marinates found it lying in state in its pumice shroud, and lifted the shroud, and looked underneath.

"Captain," Data called down from the Enterprise.

"Picard here."

"One of the Dooglasse is ready to join you. Shall I have the Darwin beam him down?"

"By all means, Data." As Picard watched, a figure materialized some meters away. It was the Dooglasse who called himself Jani, the smiling spokesman. He was about five feet tall, but seemed taller. He came forward now, extending a hand.

"Captain Picard," he said, "thank you letting- join."

Was there a trace of irony in the alien's

voice? This was, after all, his world, what was left of it, and he needed no permission to visit it.

"Transporter," Jani said, "-ah!"

"I'm glad you liked it."

"Liked? Yes!"

The mind behind the pidgin speech was much sharper than it was letting on, Picard reminded himself.

"Look around?" Jani asked, gesturing.

"Of course," Picard said, "by all means."

Jani turned abruptly and headed for a

group of buildings in the southern part of the square.

"I wonder what he's looking for," Geordi said.

"Troi?" Picard asked.

"My feeling," she said, "is that he is looking for something he expects to find here, yet he feels out of place, alienated. I don't get the sense that the Dooglasse are searching for anything specific. They're just hoping to find something that will tell them who they were."

They're wandering around in the remains of their history, Picard thought, trying to

imagine-almost as if it might be possible to remember-who they might have been. How many other races lived in the same predicament on the inner surface of this sphere? Thousands, perhaps millions, and with enough room to be unable ever to meet and compare notes. And how much of the same might be said of humankind and the Federation? How much was hidden or hopelessly lost about human, and human-old, galactic origins?

"Captain," Geordi said, "I'd like to take some readings in those houses to the north." He motioned toward a multi-storied building whose door, still on its hinges, seemed to have been thrown

invitingly open. "Captain Dalen reports that she will have the ground floor propped up and excavated in two minutes."

"I'll go with you," Troi said.

Picard nodded. The two officers moved away, leaving Picard with the Dooglasse.

It was getting on toward sunset. Picard glanced down at the Dooglasse officer standing next to him. The alien smiled up at him uncertainly, and Picard felt even more deeply now for Jani's plight of unknowing. He could not help but feel more deeply, for there was something

disturbing, on a deep instinctive level, about buildings that looked brand new, yet had last seen the light of Dyson's sun more than a tenth of a million years ago. Their vacant windows put him face to face with the fundamental triumph and tragedy of the Dyson Sphere. There was no escaping it, once he had stood under the dome of the sky and felt the ash crunching under his own feet.

Up ahead, a puff of vapor emerged through the doorway, just as Geordi and Troi reached it. There also emerged a muffled shout-as spine chilling as it was shrill-like Horta laughter mingled with a scream.

It took Picard a full fifteen minutes to calm the Dooglasse down.

Geordi came to the open doorway and stopped; Troi halted beside him. The scream had ceased abruptly, as if cut off by the fall of a heavy blade. There was nothing to see inside, for a continuous stream of dry, dust-laden air was jetting through the entrance into Geordi's face. The blast told him that Captain Dalen must still be alive-must, in fact, still be chewing happily away.

"Captain Dalen!" Troi shouted into the dust. "Is everything all right?"

For a long time, no one answered from

inside. Then the dust storm abated unexpectedly and the Horta shrieked, "Look at it! Look at it!"

"Picard here," the captain chimed in. "What do you see?"

Geordi peered inside. The Horta-flung dust was warm, thwarting his infrared sensors. He had to wait for the cloud to settle, letting daylight in through the open windows." It's all right, Captain," Geordi said. "I suppose we've just learned that Hortas can't speak and dig at the same time."

Shadows materialized out of the settling dust, becoming less misty and less vague

with each passing second. Geordi stepped inside. And then he saw.

Columns of compressed rock supported the weight of the upper floors. Like everything else in the room, the Horta had restored them with astonishing rapidity, yet with seemingly impossible attention to detail. Had the owner of this house returned today, he would have found his chair and his table, and his single glass upon the table, exactly where he had left them a hundred thousand years ago.

But what impressed Geordi the most about the room, and made him sigh with surprise and a deep aesthetic pleasure,

was his first glimpse of the frescoes on its walls. As with everything else in the city, time had stolen their beauty hardly at all, and the sudden vision of very humanlike figures, arm in arm before a great ocean, took his breath away.

"Sublime," Troi said.

Captain Dalen motioned toward a pair of body-like mounds, heaped in a corner. Scanning, Geordi saw that they were indeed what they looked like: the remains of living humanoids. He scanned for more detail and was surprised to find, in arrays of hydrogen atoms, the intact skeletons of blood proteins remarkably similar to his own.

The history written on the Homeworld' goblin genes was more human than the Dooglasse.

"Look at this," he said, showing his recordings to Troi.

She leaned forward. "Provocative," she said. "It may be that the Dooglasse diverged further from our ancestral type than we did."

"Mitochondrial Eve," Picard murmured.

Captain Dalen directed them toward a back door that opened into a Horta tunnel. Geordi saw a narrow cobblestone road, leading downward. It

formed the tunnel floor, and on either side, ancient kiln-fired brick formed the tunnel walls. Geordi followed Dalen and Troi along the alleyway and came to what seemed to be a dry canal bed.

Moving to the edge of the stone dock, the three looked down and saw the perfectly preserved remains of a wooden ship, its keel pitched up to face the tunnel roof.

La Forge was delighted by what his scan revealed: "Buried in its hold-what's left of a mechanically operated analogue computer! Gears. And multiple gear shifts."

"For navigation," Troi said.

"Yes!" Geordi said excitedly.

It was easy to forget, in this portal to Dyson's Bronze Age, that in the world outside, an navigable sea wider than Mercury's orbit was rising on the eastern horizon, and that the land on its northern shore curved upward and upward over Dyson's homeworld, and actually formed the homeworld's sky.

Nightfall came on with all the suddenness of a thunderbolt. But it was not so much a true nightfall as it was a change of lighting. Picard stood with Troi, La Forge, and the Dooglasse officer in the middle of the square and watched the strange twilight that now

came to the planet. There would be no stars, Picard knew.

A very wide searchlight beam seemed to be tracking slowly down the western rim of the excavation, as if a second sun were rising in the east. At first, the light startled Picard. It was not a sister star. He knew this in a second; and a second later he wondered if something else was coming to life here, and announcing its presence. And a second later he realized that it was the brilliant reflection of the sun off the at once flat yet parabolic surface of the Great Scott Sea.

None of the Sphere's inhabitants could have ever known a night sky of stars, or

even a deep night. Their mythologies, Picard surmised, might speak of lights in the sky beyond the wall of heaven, and perhaps of a blackness. Having never seen the universe for themselves, they might have speculated about whether the inner surface went on forever or whether there was something beyond, another space containing their spherical space, and then perhaps yet another...

Now, as this side of Homeworld turned away from the sun, the sky was filling up from horizon to horizon with the incurving wall of the Sphere. In the west, the atmospheric glare of sunset was replaced by the wall behind the sun, shining with the misty whiteness of a

thousand full moons. In that direction, Picard knew, lay the coming Ice Age. Directly overhead, according to details revealed on telescopic scans, a river wider than the Nile was long flowed all the way down the dome of heaven, yet it was completely invisible to the captain's unaided eyes, across a span of light minutes. All of the canals Data had been mapping, even an island wider than China and Europe put together, were equally invisible. A hurricane the size of the planet Jupiter, if anything like it could form up there, might go completely unnoticed on the floor of Homeworld.

Jani, the Dooglasse officer, touched Picard's hand. Picard looked down, as if

at a curious child.

"You?" the Dooglasse asked. "You... from outside?"

"Yes," Picard said.

"Tell..." said the Dooglasse.

Picard did not answer at once, realizing that it would be against Federation regulations, and against the Prime Directive, to tell the Dooglasse, or any other pre-warp technology species, about the Sphere's coming end.

There could be multiple billions-no, worse: multiple trillions of people as yet

undiscovered. Even without a Directive restricting Picard's role to that of a "watcher," it was beyond his powers to evacuate even the tiniest fraction of those trillions aboard Enterprise and Darwin.

He felt torn, and overwhelmed.

What if there was a way to save the Sphere? He had no idea how. But what if?

What, then, of the Prime Directive?

What, then, of regulations?

But this group had a vessel; sub-warp, to

be sure- still... they might conceivably survive on their own. Perhaps there were others like the inquisitive Dooglasse who deserved to know as much about their world as they could absorb.

"Later," Picard said, taking in the view, "when I can speak to your whole group."

Jani seemed to accept his answer. Then, as they watched in silent wonder, a lake of amber on the distant inner surface caught the rays of the setting sun like a bronze shield, and threw the light back into space. The lake must have been wider than forty Jupiters, to blaze into such beauty. It was gone in a moment, as

the angle of incident reflection with their eyes was lost.

Gone in a moment, Picard emphasized for himself. What point would there be in telling even this one Dooglasse about the universe outside? What would be accomplished? What would be saved? More puffs of smoke jetted from the old, multi-storied building-from the upper floors, this time. Captain Dalen was busy and seemingly happy. The Horta, too, had once been pre-warp. She, too, had once lived unaware of the universe outside. But the starship captain remembered and so honored by her people had-

Had what?

Broken the chain of command? Done the right thing for the wrong reason? Or done the wrong thing for the right reason?

What would you do, old Captain Kirk? Picard asked himself. And he knew the answer at once; and Troi put a hand gently upon his arm, and a look of startled surprise crossed her face.

"The Prime Directive?" she asked.

"I believe that I'm about to interpret our orders... creatively, Counselor," he replied.

The Furnace Below, The Firmament Above

WHEN PICARD HAD completed his presentation, the Dooglasse sitting in front of him in the Darwin's large conference room were so silent that he could hear the gentle rasping sound of their breathing. It was done; he had told them everything. Now, the Dooglasse knew that their homeworld and their star, and the Sphere that contained them, were mere specks in a galaxy one hundred and fifty thousand light years wide, containing six hundred million stars, in a universe containing at least as many galaxies.

Picard glanced at Captain Dalen, who sat on the floor at his side. It had been necessary to tell the Dooglasse everything, even if that meant shattering all of their myths and misconceptions about the ceiling at the end of their universe. They had seemed so eager to break out of their ignorance-or their innocence-and they possessed the means to at least leave the Sphere before the neutron star arrived.

"You are," Picard said to Jani, "already somewhat acclimated to the idea of 'outside.'"

"Yes," Jani replied, "I see it, I think of

outside, but-"

"What can be outside the universe?"
another of the Dooglasse asked.

"Are you saying that the heavens are no
more than-"

"I see a sky, and you show that I am
inside a ball?"

The Dooglasse were all chattering at
once; he could no longer make out their
questions.

"Stop," Captain Dalen said suddenly.
The Dooglasse abruptly stopped talking
and leaned toward the Horta officer hi

unison.

"I have lived through the paradox of the outside," Dalen went on. "I myself come from a race who once lived beneath the surface of our world, believing that there could be nothing beyond it. Space was something we created as we made our tunnels and passages, not something vast outside our world that was filled with stars and galaxies. Had the human beings-the ones like this Picard-not come to my planet, we would be burrowing still and creating space and running out of space to create."

Jani made a motion with one of his arms. To Picard, it looked as if the Dooglasse

was telling Dalen to continue.

"The real universe," the Horta said, "is a finite yet unbounded sphere whose center is everywhere and whose edge is nowhere. "You can move outside your Sphere, you can step outside it and view it. But no one can step outside of the much greater sphere that we call the universe."

Dalen continued to speak, telling the Dooglasse of the stars and galaxies and the true scale of what lay outside the universe of their Sphere. Even through the alien expressions, Picard could easily recognize both understanding and disbelief in their faces and subtly alien body language, convincing him even

more that humankind indeed shared a distant human kinship with the Dooglasse.

Captain Dalen paused. Picard watched the audience of Dooglasse. The look that came into Jani's face, and into the faces of some of the others, was that of children who had heard a most horrific story but still wished for the story to continue. He and Dalen, Picard thought, had read to them from the true Book of Revelations, with the worst still to come.

He waited until he felt they were ready to hear the rest, until all of them were looking expectantly at him. "There is

more," Picard murmured. "This is very hard for me to say, and it will be much harder for you to hear. You will have to leave the Sphere you have always thought of as your universe. "You will have to travel outside of it if you are to save yourselves, because your giant Sphere-your universe-will be destroyed in eleven of our days."

They were silent for so long that he wondered if they had understood him, and then they began to talk among themselves, clearly distressed, and a mournful, keening sound came into their voices. First, they had been faced with what could only be called metaphysical dislocation, and now they had to deal

with the terror of doom.

But they would be able to leave, Picard reminded himself. He had told them so, they were accepting it, and now he and Dalen would have to start working them up to constructive action as quickly as possible.

CAPTAIN'S LOG, STARSHIP
ENTERPRISE

IMPACT MINUS 11 DAYS EGRESS
MINUS 8,5 DAYS

There is a question that resists resolution, yet refuses to go away: How many other races are there inside the

Sphere, the uncounted thousands of them?

And on the heels of this question: How many, among those thousands, would react as well as the Dooglasse have? And-is it possible to warn them all? Or even to find them?

As for the Dooglasse: in their ship and in their bodies they carry all the evidence that is likely to be found in the time remaining of their kinship with the galaxy's humanoid past. What good this might do in humanity's future dealings with the Borg is questionable, but it is not a matter to be decided here and now.

"Enterprise to Darwin," Data said over the subspace link.

Picard, sitting forward of Captain Dalen's bridge command station in one of the Horta saddles, answered the call. "Picard here." The captain of the Enterprise was holding the helmsman's position as the call came in, remembering his younger days.

"Captain, I have concluded from precise measurements of the Sphere's motion and position that, as we have suspected, it is indeed capable of dodging the neutron star."

Picard frowned. Good news, to be sure,

but he could swear he heard some reservations in Data's voice.

"Now give me the bad news, Mr. Data," he said.

"In a word, Captain: inertia. As you know, clouds and oceans are held in place on the walls of the Sphere by independently generated subspace fields that, even during spurts of acceleration, defeat inertia and maintain the illusion of normal gravity. But the fields dissipate rapidly beyond a radius of thirty kilometers above the inner surface; and beyond that radius, inertia is winning.

"Picard glanced aft at Geordi La Forge and Lieutenant Kar, who were both at

the engineering station. Geordi nodded at him, as if agreeing with Data. Kar made a shivering motion that seemed to be the Horta equivalent of a nod.

Picard said, "Odd, then-that the Sphere would have the ability to move, yet be filled with fields never intended to operate outside of continental and oceanic boundaries."

"Or, at least, filled with fields that are failing to do so, Captain. Nevertheless, something is attempting to make do, trying to keep the sun in its central position as the Sphere moves, by using all the grappler beams from the portals to move the Sphere without leaving

behind the sun and planetary bodies."

"Will this succeed?" Picard asked.

"Briefly, and to a very small degree, it will. There may be a few days' respite, but I doubt it will matter. As the Sphere dodges the neutron star, the central sun and its planet are accumulating an inertia! lag and will eventually strike the inner surface of the sphere. There simply does not seem to be enough energy, at least in the way it is being used, to prevent it Of course, I am projecting from current use."

"Might not the energy output increase?" Picard asked.

"Unknown, Captain. If this is an automatic system at work, it may be defective. If intelligence of some kind is at work, it may be working to correct the problem."

Utterly fantastic, Picard thought. Astrobiologists and astrophysicists, working solely from data obtained during the first encounter with the Sphere, had concluded that Dyson was the fossil remnant of an extinct culture. Now it was living and breathing and doing the impossible: It was moving the equivalent mass of two hundred light years of stars, however failingly, out of harm's way.

Dead world indeed! The captain told himself again.

And what was it that Data had suggested about intelligence of some kind at work, trying perhaps to fine-tune the grappler beams, trying to drag the sun and the homeworld along? Was it machine intelligence? Or was some distant descendant of the Dysons taking control? And if so, where might he hope to find them, in any of possible dozens of millions of tiny city-states strewn across Dyson's walls?

"Where do you think the control center for all this might be?" Picard asked.

"Perhaps we could make... adjustments, or lend our assistance."

"Of course, it is doubtful we will have time to find it," Data said, and Picard nodded in agreement. If only it had been possible to bring the Enterprise inside, to add its great scanning power to the Darwin's; but the risk was unwarranted. The Enterprise had to stay outside; even if the lock system could be made to work, too much would be at stake to risk trusting the gate while both ships were inside. So little time to do anything, Picard thought. If the neutron star did not destroy the sphere, its own sun would tear it apart from within. It seemed to Picard that two very old giants had come

awake and resumed a family feud. And the starships, a pair of fleas crawling around on and in one of the giants, were not smart enough to leap away.

And it gets worse, Picard told himself: Imagine that they're feuding in a lake of gasoline, and each holds a loaded flare gun-wormhole technology would serve this analogy well-and then imagine that at least one of the giants is senile.

"Just a moment, Captain," Data said, "some new information is coming in. Yes, I think I know where an inertial control system for the sun might be, and it is in the logical place-orbiting the sun, very close in, three clearly artificial

objects."

"Prepare to depart orbit," the Horta captain was already saying behind Picard. "Make course."

"Aye, Captain Dalen," Picard answered, setting coordinate scans for the position Data had provided. "Away team! Prepare to depart in the next five minutes. We're readying to leave orbit."

"Captain Picard," the Horta said from her command station, "shall we transport the Dooglasse from their ship back to ours once more and take them all with us?"

The question took Picard back for a moment, and he considered. There was no telling what state their ship was in. It might not have what would be required to exit the Sphere at the crucial hour.

The Darwin cruised sunward, laying down a wake of micro-ripples through otherwise fiat spacetime as heat from the cauldron of protons striking antiprotons was dumped effortlessly into subspace. Any large, thick-walled ship not equipped with subspace heat dumps would have been reduced to an expanding ball of plasma the moment its captain ordered up impulse power.

Following slowly in the Darwin's wake,

falling light minutes behind, the Dooglasse engineers did not know subspace, so their ship was little more than a web of ultra light tethers, magnetic field lines, and minute shadow shields. Their matter-antimatter reaction zone burned in open space, meaning that its gamma flare was dumped effortlessly into space itself by a ship that was never intended to intercept and absorb the rays-a fact that had rendered the Dooglasse engine easily detectable on the Darwin's sensors.

Jani, to Picard's mind, still seemed to be struggling with the idea that there could be something "outside" capable of destroying his entire known universe. He

had turned down Picard's offer to beam his crew aboard the Darwin, explaining that they must travel in their own ship, which had been so long in becoming as serviceable as it was. When Picard offered to send in a team to check out and perhaps improve the ancient systems, Jani responded with apparent gratitude, but again asked that his group be left to its own resources. Picard understood their pride, and Troi had pointed out that this was a necessary form of self reliance, still growing, which the Dooglasse would need after the Sphere was gone.

Recording every neutrino, quantum fluctuation, string gyration, photon, and

electron in its path, the Darwin detected the presence of three small objects, each about six meters across, orbiting so close to the sun that they occasionally dipped below its upper atmosphere.

Picard watched them on the viewscreen for a while. "What do you make of these... sun divers?" he finally asked Data over the link.

"Whiskers," Data replied. "They have tendrils no wider than a cat's whiskers; but kilometers long. Subspace mapping suggests that they are acting as transmission lines between the tractor beams and a whole array of whiskered objects circling the sun's core. I would

approach cautiously, Captain."

"Understood," replied Captain Dalen from her station.

One of the objects became visible on the screen. It seemed an ancient armored thing, vaguely resembling a silvered version of the fossil cephalopod whose coiled, pearly white shell was among the few Earthly reminders Picard had chosen to decorate the Enterprise's ready room. The "whiskers" emerged from the place where the cephalopod's head and tentacles ought to have been; and as Picard watched, they flashed out across two hundred and twenty subspace dimensions.

"Data?" the captain asked from his helmsman's station.

"I would say this is one of the control devices from which the attempt to steer the Sphere is coming," Data's voice replied. "Also, an attempt to drag the central sun's core along, and hence the sun itself, and its orbiting homeworld."

"And the energy to do this is being drawn from the star," Picard ventured; then, as if on cue, the whiskers gleamed even brighter through subspace. Simultaneously, the Sphere's wall added another spurt of acceleration, and the solar luminosity dimmed by one half of

one percent. The screen showed five grapplers coming suddenly to life on the distant, snow-covered side of the Sphere; they flickered weakly, unable to get a firm grip on the objects-the hundreds of them-that formed a necklace around the sun's core. As they watched, the distance between the furnace and the snow widened.

Another grappler came on.

And another.

And another.

And solar luminosity dropped another quarter of one percent. Then another.

And another.

"If I may posit a theory," Data said, "if the instability observed in this star when we discovered Montgomery Scott's ship had only very recently begun-

"Yes," Picard interrupted, "I was coming to that conclusion myself."

"Then the star must not really have been dead when we found it-or even dying, but merely awakening."

"Transmitting power to the Sphere walls?" Picard asked. "Even before we found Montgomery Scott?"

"Powering up for the dodge maneuver?"

"Perhaps so," said Picard. "In which case, Dyson truly was anticipating, somehow, the arrival of the neutron star. It knew it was about to be attacked."

"Well, there's something you don't see every day," said Captain Dalen. "Your archaeological site comes alive and starts fighting with another archaeological site."

Picard glanced back at the Horta. "But right now," he said, "the question is: Do you think we should try to approach the whiskers and correct the system's defects?"

"That might save the Sphere," Data replied, "assuming we can ever learn how the transmitters work."

Picard nodded his head, very slowly. "I know, Data. So many unheard of quantum spatial dimensions. It may take a hundred years of learning."

"Or a thousand," Captain Dalen said matter-of-factly.

"Yes," Picard said. "And in the meantime, I feel like a Neanderthal walking into a modern day engine room, trying to pry loose its secrets with a stone axe. A hopeless venture."

"And quite dangerous," Data reminded.

"But warranted," Captain Dalen decided, "even if the risk to the Darwin is large and the chance at saving the Sphere small."

"Yes, Captain," said Captain Picard.

And as the Dooglasse dropped behind, the off-center star swelled to a screen scape of fiery prominences and magnetic trenches. One of the whiskered cephalopods was crossing the sun's face, and it seemed for a moment that it was a black opening in the star, revealing the space beyond, except that no stars shone

in the deep well.

"Slow ahead," Captain Dalen said.

"Make parallel orbit to the station."

"Aye," Picard replied, pressing another panel on his console.

Deep within the solar corona, and down to a velocity of five hundred kilometers per second, the Darwin matched speed with the station, about ten kilometers off. One of its whiskers drifted a hundred meters to starboard, another approached a hundred meters to port, then held position.

"Data," Picard said to the Enterprise, "is

it safe to let those whiskers get any closer?"

"The subspace distortions do not rise beyond a radius of two millimeters from the whiskers, unless you happen to be standing where a whisker is pointing."

"Otherwise, it should be safe," the Horta captain announced, "so long as we do not get brushed by the whiskers themselves."

"Then we'll stay. Nothing is more important, at least for the next day, than the possibility that we can adjust the inertial controls and prevent the sun from crashing through the Sphere wall."

"Kar!" Captain Dalen called. "La Forge! Are we positioned for gamma ray CAT scan?"

Lieutenant Kar shifted her body in her saddle. "I've already begun, Captain," the Horta engineer said.

"The subject is passing directly between us and the sun," Geordi added. "Sorry, Captain. It isn't working. The sun's rays just aren't strong enough for even a few of them to get through the shell. The station is either absorbing them-all of them-or deflecting them. Impossible to tell. It's all just one big data drop-out."

Picard turned and looked at Troi, who had just come onto the bridge and was now seated on the Horta captain's right.

"I had hoped we could probe it passively," Picard said, "without it detecting that it was being probed."

Troi nodded her agreement with his first plan, although it seemed to him that she might have wanted to suggest that they refrain from plans to beam Geordi's so-called "walnuts," or anything else onto or worse yet, beneath the transmitter's shell.

The Horta captain let out what seemed a deep growl. "Whiskers coming at us. All

shields up full!" she shouted.

At his helmsman's position, Picard focused on the screen-gone to maximum, now, at the first sign of something approaching from outside. He plunged Darwin's prow straight down; but as the whiskers on starboard and port closed above, three more whipped up from below, brushing gently past the vessel's stern, missing the hull by mere centimeters-perhaps as much for their own protection as for ours, Picard thought.

He had just been scanned, thoroughly scanned; he was convinced of it. This ship, and his whole body.

He knew it.

He felt it in the skip of his artificial heart.

The alien station continued its traversal of the solar face.

It suddenly went black, then flashed out blindingly white-blinding even against the brilliance of the sun. For three unendurably long seconds the Darwin shook from stem to stern, shook so violently that her subspace gravitic fields could not completely overcome inertia. Picard managed to look aft and saw that even Dalen was finding it

impossible to steady herself in the saddle.

He saw the screen readings drop below ten percent power as a solar flare, pointing at him like a giant accusing finger, struck the Darwin with planet-cracking force.

That was deliberate, Picard told himself. No doubt of it: Dyson's off-center star was the center of its immune system, and it was responding to an irritant.

"All decks!" Captain Dalen called out.
"Damage reports."

Picard listened to the answers. Damage

was minimal, but the impulse engines were laboring, and seemingly ineffectively. That accusing finger had flicked the Darwin out of solar orbit as if it were a gnat... or a microbe... All controls seemed locked, unable to slow or maneuver.

Picard brought up the view-forward. It showed the inner surface, more than sixty million kilometers ahead, and he realized that if the Darwin failed to slow, it would strike what now seemed only a distant lake, but was in reality a vast ocean some one hundred million kilometers across from shore to shore, and now only light minutes away.

Picard knew only too well that without full impulse power, the Darwin would reach that ocean in less than five hours.

"Can we slow?" Picard asked.

"We took a heavy blow, with thwarted force screens," Captain Dalen replied.

"Repairs are proceeding, but our direction and velocity seem locked. It may be beyond repair in the time we have." Picard heard no emotion in the Horta's voice.

"Riker-Data!" Picard called out. "Did you get that?"

"Yes, Captain," Riker said.

"Data?"

"Downrange distance thirteen light seconds," Data replied. "You may have to abandon the Darwin."

"No!" cried the Horta. "We will make repairs, no matter what it takes."

"There may be no time," Picard said.

"We will make time!" Captain Dalen cried out, and for an instant Picard believed, though impact on the Great Scott Sea seemed a mathematical certainty, that the Horta would indeed gain time and save the Darwin. She

would not allow herself to doubt that until she had no alternative.

"Jee!" the Horta captain continued.
"Sherd! To the engine room on the double!"

The Interrupted Journey

THE GREAT SCOTT SEA grew balefully on the Darwin's bridge screen, sweeping up ahead like the galaxy's largest flyswatter. On the eastern shore, vast stretches of alternating desert and forest blended undetectably into a uniform greenish-brown. Picard saw that they were breaking up into tiny speckles, now. Deserts as wide as the Earth's

moon were becoming visible: white dots against a background of green.

"Impact in sixteen minutes ten seconds," Data called from the Enterprise, and the eastern shore drifted slowly aft. "Sixteen minutes..."

"Slowing our descent," Captain Dalen announced from her station, "but we will not be able to slow it enough to turn away."

Beeps sounded on the bridge. Lights flashed on the panels in front of Picard. One Horta officer on the port side of the bridge slid off her saddle at one station, making a soft scraping sound as she

moved across the floor, then quickly pulled herself into another saddle.

The hit from the alien sun station, Picard saw from the readings on his console, had thrown whole sectors of the Darwin's control systems into chaos. Even though resetting and repairs were now commencing, they were still a labor intensive, interminable series of diagnostics, commands, and physical restructurings. The Darwin's engineer, Kosh, had come to the bridge; she sat at the engineering station, murmuring instructions to the ship's computer. La Forge and Kar had rushed down to the engine room, to aid the crew there.

Full control, Picard realized, might come only within that last second separating the ship from the sea; or it might come a second too late.

As islands and great streamers of cloud cover expanded to fill the entire forward view, Picard faced up again to Data's supposition that the Darwin might well have to be abandoned. Anywhere near this velocity, their first contact with Dyson's atmosphere would leave no time to call out to the Enterprise for help. They would be dead even before they knew they were about to die. Yet he hesitated to bring the Enterprise in or to give the captain of the Darwin a direct order to prepare for beam-out. As leader

of the expedition to the Dyson Sphere, he had the final word, but he hesitated nonetheless. His instincts were telling him to ride this one out, to trust in Dalen and her ship.

"We're decelerating," Captain Dalen said, "but we still cannot steer."

On the screen, the Great Scott Sea was now a perfectly flat wall of water. Instruments gave the distance, but to the eye all comparisons were lost. A new chain of islands came into view and began to grow, and for a moment Picard's perspective shifted.

Was there still time, he wondered, to

bring the Enterprise in, even if he wanted to?

"Still no steering," Captain Dalen announced, "but still decelerating."

"Check all shields!" Lieutenant Jee called out to the crew in Main Engineering. Four Horta engineers sat in pits around the engine room's master systems display console, occasionally poking at a button or panel with a rocky extrusion, as they struggled to regain control of their ship.

Geordi glanced at the wall, where lights flashed on the master situation monitor. They were in big trouble, he realized;

the diagram of the Darwin was lit up like a Christmas tree. The steering was still out, the shields failing.

Geordi bent over the console in front of him. The impulse engines were faltering. An alarm suddenly sounded, indicating that the Darwin's matter-antimatter reaction core chamber was close to a plasma breach.

He was about to warn Jee of the danger when the Horta commanded, "Lower first section isolation door!" Main Engineering was safe for now; Geordi hoped that they would not have to activate the containment force fields to protect this station, which would drain

even more power. They needed time; they could regain control only if they had a little more time to make repairs.

But there wasn't any time left. It looked as if the ship was indeed falling a second too far.

Picard asked himself if Captain Dalen was capable of taking the ship to its destruction, leaving no time for the crew to escape. The Darwin, an exploratory vessel, carried two smaller craft, but they were as large as small ships and carried equipment far in excess of standard shuttles. They would be enough to carry away the crew into the great space of the Sphere, and reach the lock,

which would then be triggered; and the Enterprise would collect the emerging orphans.

Picard turned in his saddle. "Captain Dalen," he said, knowing that the shuttles had also been disabled by the attack, "repairs on the Balboa and the Engford?"

Troi had sensed a recklessness in Captain Dalen and the other Hortas, a willingness-almost an eagerness-to take risks. Now, sitting on the bridge, watching them monitor readings and whisper orders to one another, she sensed determination in the Darwin's captain and her crew, but not fear, not

even a trace of fear.

Were these beings completely fearless? she wondered. Perhaps their silicon carapaces and their long lives made them think that they were invulnerable.

Suddenly she felt something else from Captain Dalen. There was a longing inside the Horta, a longing for-what? Vivid, intense experiences to fill the rest of her extremely long life? A desire to feel the danger she faced fully, so that if she survived, the memory of her close encounter with death would make her savor the remaining centuries of her life all the more? Troi sensed all of that, and more, inside Captain Dalen, but there

were still no traces of dread, and the counselor feared what might happen next.

The Darwin was falling toward the upper cloud decks now, still decelerating, but glowing cherry-red, as Picard and the others on the bridge waited for word from engineering.

"Engineering?" Captain Dalen asked, her voice sharp. "We must have navigational control in the next three minutes!"

"Doing our best," Lieutenant Commander Kosh said from her station, a tone of resignation in her amplified voice.

"We're working on it," Geordi's voice added from Main Engineering.

"Will we have it?" sang Captain Dalen.

"If it's possible," Kosh replied in almost a whisper.

As they waited in silence, a horizon-spanning streamer of clouds leapt up at them, boomed ions, then parted; and suddenly the ocean burst into view below.

"Twenty percent of navigational control restored!" the voice of a Horta sang out from Main Engineering.

It was not enough, but Picard suddenly knew what Dalen was going to do with it. As deceleration continued, she brought the full twenty percent of navigational power into play, raising the Darwin's prow as much as possible.

Nothing happened for a moment; then a pocket of hypersonic air caught the ship from below and her hull began to quake and roar. Picard hung on to his console as his saddle shook under him; he heard a sound like that of a stone chipping against stone as a Horta on his left fell from her saddle and hit the floor. Slowly the Darwin levelled off some one thousand meters above the water and rode over it, still decelerating. Picard

realized that no more repairs could be counted on in the next two minutes. Atmospheric drag and lift, together with deceleration, would have to serve.

"Picard to Riker."

"Riker here."

"We're going into the water."

"At what speed?"

"As slowly as possible. There's no other way to stop and make repairs."

On the forward view the ocean was rushing beneath the Darwin like a sheet of blue light, more quickly on the human

scale than the unperceived swiftness of passage between the stars. The human eye liked comparisons, and did not believe in motion without them.

"More effort into navigation and deceleration," shouted Captain Dalen.

"Negative," a voice from Main Engineering said. "This is as slow and controlled as we'll get."

"Set us down," Captain Dalen said. "The water will slow us, if we land gently enough."

Picard braced himself, since the crew could not rely on the ship's usual inertial

control--And the Darwin touched, and skipped, and touched again, shooting forward but slowing.

Picard's body wanted to continue forward in time-honored Newtonian fashion, but he had never been a man for fashion. He held himself in his saddle, knowing full well that momentum could easily be stronger than a man's grip on a physical object; but he held--And the ship slowed to a strong plowing motion across the water, stopped, and started to sink.

Picard knew that the vessel was not taking water, but a starship was not a submarine. It would sink until it reached

equilibrium with the sea and could sink no more.

Troi hurried toward the Horta officer who had fallen to the floor, but that Horta was moving now, apparently unharmed. Captain Dalen was already getting reports from sick bay about injuries aboard ship.

"Captain Picard," Data said from the Enterprise, as if Darwin's safe landing had never been in doubt.

"Picard here."

"The Sphere's attempts to avoid the neutron star continue badly. The central

sun is failing to be pulled along by the grapplers, and is drifting toward your position, relatively speaking. If no corrections are made, and if the Sphere continues with its fits and starts of acceleration, the sun will strike the Great Scott Sea in approximately six days..."

"Where, exactly, will the sun set?"
Picard asked.

"Right where you are standing," came the reply.

"And that will be bad, right?" the Horta captain sang.

"... Yes," Data said hesitantly, as if confused by the black humor of the situation. "If you had managed to establish a link with one of the control stations, we might have made it possible to keep the sun out of the water."

Riker said, "I'm sending in a shuttle with Crusher, Worf, and Guinan, to give you a hand. I know you may not need it, but I want to feel better about that lock opening reliably, so here's a chance to test it again. Guinan, by the way, insisted on going, and I have a feeling she might be of use there."

"We're caring for our injured, Commander Riker," Captain Dalen

replied. "Mostly mild concussions and the odd exoskeletal chip, but nothing life-threatening."

"What about your ship?"

"We're afloat now, half down in the water. I think we can make repairs and be able to lift off."

"How soon?" Riker asked.

"As soon as our programs can be rebuilt."

"You may have to leave in your shuttles," Riker said, "if the ship..."

"Shuttles and ship," Captain Dalen said,

"are in the same state of jumbled control programs. They will be repaired at the same time. Besides, abandoning the Darwin is not a good idea."

"Compared to what?" Troi muttered under her breath as she returned to her station near Dalen.

"Captain Picard," Riker said, "if the Darwin or your shuttles can't lift, we'll have to shuttle you out."

Picard hesitated. "A day will tell what we can repair," he said, knowing full well that in the last possible resort the Enterprise herself would have to enter the Sphere to effect rescues. It could be

done, he supposed, with shuttles standing outside to trigger the lock if necessary. He had to think ahead, to all possible outcomes, whatever the actual outcome. And Captain Dalen, he was certain, was thinking in the same way. The Horta had seen more than a few strange outcomes in her long life.

Voices From the Past

THE SHUTTLECRAFT NOSED DOWN toward a chain of little white clouds and islands sprinkled over a sea that was flat and blue-green and impossibly vast. Beverly Crusher gazed at the small viewscreen near her as the specks slowly swelled in size. There

was the hiss of increasingly dense air against the hull, and a perceptible shudder in the floor panels. The prow nosed down another five degrees and Beverly, tensing herself, glanced to her right, where Worf sat at the Feynman's controls.

"We will be at the Darwin's side in two minutes," he announced.

For Riker to send Worf to help the Darwin made sense; the Klingon's courage could be trusted in any crisis. For her part, Crusher was sure that her medical skills would be useful, even if treating Horta patients might require as much knowledge of masonry as of

surgery. But Guinan's reasons for wanting to come along with them were a mystery. There was, Crusher thought, no real reason for Guinan to be here.

She turned toward the bartender, who was seated on her left. Guinan wore her usual serene, Buddha-like smile; she glanced at Crusher and nodded, as if to reassure her.

"This is truly something to see," Guinan murmured. "I didn't want to miss a chance to explore even a little bit of it," but then her eyes clouded, as if she were thinking of something else. Crusher recalled the crew's earlier speculations about the origins of the Sphere. She had

dismissed the notion that ancestors of the Borg might be its builders, but now, with Guinan at her side, that possibility nagged at Crusher again.

Could that be what had driven Guinan to insist on coming with them? Maybe she was convinced that the people who had all but exterminated her species were indeed the creators of this wonder. Was she here to admire the artifact, Crusher wondered, or to rejoice in its devastation?

The Darwin was not quite a submarine, Picard reminded himself as he emerged through a manual service hatch and stood on top of the vessel under a cloudy sky.

Engineering had finally killed all forward propulsion, so the ship was not even much of an ocean-going vessel. Standing on the hull was difficult, at best. Under the influence of the internal subspace fields, all the decks had seemed perfectly level; it was not until he actually climbed outside that Picard realized Darwin was angled down by the bows, nearly twenty degrees.

They were adrift near a group of islands, awaiting repairs and waiting also for Beverly Crusher, Worf, and Guinan to arrive. The sea was as calm as a quarry pool, and there was not the whisper of a breeze. But this would change, Picard knew. Bathy-metric scans had shown

that the sea surface was getting hotter already, progressively hotter. Unless someone, or something, in Dyson took control, the progression would continue until atoms of hydrogen and oxygen, dissociated from water, raced away from this place hotter than live steam, hotter than molten glass, hotter than aluminum composite emerging white from a furnace.

There was a clap of thunder overhead, the sonic boom of the Feynman as it slowed to subsonic flight. Picard watched the shuttlecraft drop through the clouds and approach his position, then gave a wave and touched his communicator.

"It is good to see you, Captain," Worf said over the comm.

"Sorry we can't let you into the shuttle bay," Picard replied, "but I think there's room to anchor up top."

"Yes, Captain, I have already programmed the landing parameters. We will just fit behind you."

Picard flagged the shuttlecraft in for final approach to the Darwin's stern, and the Feynman crossed a small opening in the clouds, through which the vastness of the Dyson Sphere's far inner surface was partly visible—a sky of land beyond the

sky, covering the sky of stars below itself-and he thought of Dylan Thomas's lines of poetry: "They shall have stars at elbow and foot... And death shall have no dominion." Except that death was coming to this great inward shore, threatening with two stars-the interior sun, almost at elbow, now, and the onrushing neutron star, at foot.

The shuttlecraft swooped in and hovered over the impulse engines, then settled onto the flat plain just aft of the bridge. Picard breathed deeply of the Sphere's ancient air, and went forward to greet his crewmembers.

Beverly Crusher came out first,

followed by Worf and Guinan.

"Captain," the physician said, moving past him toward an open hatch, "looks like I'll be getting some experience with Horta physiology after all-" and then, looking around, she added, "but, damn it all, Jean-Luc; do you always have to cut these things so close?"

"Close, Beverly? We had whole seconds to spare."

"Captain Picard," Worf said, "the Dyson Sphere is going from bad to worse. I think we should leave as soon as the Darwin is fit again, while we can do so without great difficulty."

"You may be right," Picard said, suddenly gazing past Worf to the islands in the distance, clearly visible with absolutely no fall-off beyond the horizon. This was a feature distinctive of the flattest place in the universe. But he was forced to remind himself that it was only an apparent flatness, born of the widest curved space ever built. Einstein had been forced to struggle with a similar problem while attempting to probe the even more exotic concept of spacetime curvature-meaning, the entire universe: "Most people are confused by curved space," the physicist had declared, "even those who must live in curved spaces."

Confusion. This artifact has the power to overwhelm, Picard warned himself. I must be careful.

Confusion...

It seemed that a strange singing sound was coming from the islands, as if something were vibrating just beyond the range of his hearing...

He broke the spell and noticed that Guinan was watching him carefully. She walked down the slanting hull and stood beside him, and he wondered what she was thinking.

He said, "Those islands are only a random sample of what this world has to offer, by way of secrets, and probably the last such sample we'll ever have."

"We have time to see them," Guinan said softly, as if she knew something or someone there. She seemed to be straining to listen.

"I will come along, Captain," Worf said, and Picard could not help but hear his security officer's unspoken words: "The captain of the Enterprise should not put himself in danger." Except that this mission was intended to involve the captain from the start, and there was nothing Worf could do except to be

present and protective.

As the Klingon climbed into the cockpit of the Feynman, something on "those islands" beckoned to Picard, like the Sirens of Greek mythology. The still air brought strangeness, and he thought of how death had been prophesied to Odysseus-"It shall come to you out of the sea, death in his gentlest guise."

"Troi to Picard."

He touched his communicator. "Picard here."

"Dr. Crusher is assisting with the injured- mostly concussions," Troi's

voice continued. "Repairs should be complete in about twelve hours, Captain Dalen estimates."

"Then we do have time to see the islands," Picard said. "Maybe we even have time enough to take another stab at the sun-from afar, next try, and maybe-just maybe we can change-"

Guinan put a hand to the side of his face, and something infinitely joyful yet shocking ran through him like lightning through salt water. "You will change nothing," she whispered, "except your own decided course."

"What?"

"Nothing lasts forever, Jean-Luc; not our great machines, and least of all us. Time will have its say. It always does."

"My decided course?" he said.

"Remember, they say time-"

"-Is the fire in which we burn," he finished for her, and she took her hand away from his face.

"Remember," she said again.

"Remember."

Picard could not remember when he had seen a sea so calm. Worf, at the controls,

skimmed the Feynman like a hypersonic stealth fighter over the island group, making a proud, wide arc at treetop level, then stopping abruptly in midair and climbing.

Viewed from on high, the islands were a chain of circular green patches, floating like waterlilies on a vast pond. The first island was the largest, and it now revealed a startling sight: a circle-within-circles strewn field of broken porcelain tiles, criss-crossed by bridge supports and canals. Picard checked his panel sensors and knew that his ears had been right: A high-pitched sound was rising from the ruins.

"Beautiful," Guinan said. "Like Plato's description of lost Atlantis."

"Do you somehow know this place?" Picard asked, wondering.

"No, Captain," she said, smiling. "I haven't been here before."

"Then why did you ask to come?" he said, thinking again of the intricacies of their relationship. It was one he did not fully understand; but he also felt that he did not have to understand it, now, soon, or ever. Like the Horta, Guinan could look back across centuries of life, lovers, children, and hurts-her civilization had been erased by the

Borg-and yet still she looked forward with the constructive efforts that she had brought to the Enterprise.

"I have come," she said at last, "to help as much as I can."

As Worf set the shuttle down in a perfectly white square, Picard thought of the fragility of porcelain, and reminded himself that once shattered by the moving sun, the Sphere could not be mended. Guinan's words therefore puzzled him, because she would know better than anyone that not very much could be done for the inhabitants of Dyson. Yet she was not here simply to explore.

"I came to help," Guinan continued,
"that's all."

The clouds parted when they came out of the shuttle, revealing a blazing sun and a white-surfaced city of collapsed porcelain towers and terraced pools. A breeze rose suddenly from the sea and screamed thinly through the ruins. The sun had stopped in the sky, much as the Bible said it once stopped for Joshua; and because of that miraculous paradox, that miraculous inertia, it was going to actually set-in a manner of speaking.

How to turn back the miracle?

That was the question.

Picard and Guinan came to the edge of a canal, then gazed down into water that was as blue as a steel mirror. Guinan took his arm and pulled him back from the edge. He glanced at her questioningly, then looked back in time to see a large squid-like creature rising from the smooth surface. It put out tentacles onto the white walkway, pulled itself halfway out of the water, and seemed to wait.

"Intelligent beings," Guinan said. "I felt their presence from the shuttlecraft when we were inside the Sphere."

Picard saw others darting underneath the water, some moving so swiftly that he could barely glimpse them. Calmly, he asked, "How many of these people do you suppose live here?"

"Around only these islands?"

Picard nodded.

"I don't have to suppose. I am picking it up now. Thousands. Five or six thousand."

Picard felt the muscles of his face tighten. "And how many more-across the expanse of this entire sea?"

"Billions."

"Nooo..."

"And that's just one race."

"I don't think the authors of the Prime Directive visualized this situation, do you?"

Guinan said nothing. This time she did not even shake her head. Like a skilled bartender, she seemed to realize that her role was to be part philosopher, part psychiatrist, and part psychic.

"I wonder if they know what will happen," Picard said.

Guinan gazed intently at the creature for a few moments. Its tentacles were moving in what looked like signals of some kind. "They know," she said, "that a great danger is coming. My sense of them is that they know something is wrong, and has been wrong for a very long time. They have been dying off for millennia. When I tell you there are a few billion of them, I'm telling you that their numbers are down to billions."

Picard's communicator chimed and he tapped it. Worf, calling from his post at the Feynman, said, "Captain, Commander Riker says we have to get the Darwin out of here in the next ten

hours. If we cannot, he will send in more shuttlecraft, or else come in himself."

"There's still time," Picard said, feeling the sun against his face. It felt stronger than it had only a few minutes ago; but surely he was only imagining this, he decided, as the sea breeze strengthened and the clouds closed off the sun, and then the temperature dropped suddenly, soothingly. A moment later, he forgot the heat.

Next to him, Guinan was silent and seemingly preoccupied with the alien squid.

"Guinan?" Picard asked.

She raised a hand for silence. He waited. Finally she looked at him and said, "I've been listening to some of their stories. They have a lot to tell."

"If they can't survive," Guinan said, "it is their hope to be remembered. I'll remember them."

This then was why Guinan had come in with the Feynman, to remember any beings whom she found here. Nothing more, nothing less than this. It was a piece of nobility to be savored.

To Dream in the Sea of Sorrows

PICARD STOOD NEAR GUINAN on the south bank of the canal. The first alien squid had swum away, but another had come to rest alongside the bank and gaze up at them with its large eyes as it weaved signs with its tentacles. Guinan knelt on the bank, folding her legs under herself, never looking away from the alien.

Picard suspected that the squid was communicating with Guinan both with its tentacles and with some sort of telepathy. He could not tell if she was replying to the alien somehow or simply listening to what it had to tell her.

Two other squid darted toward them,

then fled. "They had a dream," Guinan said softly, "or perhaps I should call it a hope."

"And what was this hope?" Picard asked.

"Space travel. It's an ancient dream for them, Jean-Luc, because they are a very ancient people, so old that their own origins are only distant shadows lost in the past. They were old when your species was young, when my people were young. They do not even have names for themselves, or for their race."

Their silent alien companion slipped under the water and vanished. "Sea

swifts," Picard said. Something about these beings reminded him of the small birds he used to see swooping over his family's vineyards in the summers.

"We'll make a name of our own for them. I'll call them the sea swifts."

What they really were, and where they came from, he thought, was anybody's guess. It seemed highly doubtful that they could have evolved from the Great Scott Sea all by themselves over the course of a hundred thousand years.

"This Dyson Sphere," he said to Guinan, "is becoming more and more of a puzzle."

"Yes," she said.

"Here's one possibility. This world inside Dyson is some sort of vast cosmic zoo assembled by accident, and our sea swifts are a mere remnant- maybe pets- from one of the lost civilizations that have presumably been blundering into the Sphere ever since it was abandoned, getting trapped inside with their ships, with no way to get back out again, and therefore continuing, as it were, this great experiment."

"Pets, Jean-Luc?" Guinan asked, with a tone of amusement in her voice.

Picard smiled gently but did not reply.

Suddenly, in the distance, about twenty kilometers away, something bright and shiny broke the surface of the sea. Picard watched as the glittering object grew, swelling until it had become a new island in the chain, an island larger than the Darwin.

He narrowed his eyes and saw then that the new island was only the tip of the alien artifact that had so suddenly appeared. Behind its transparent walls, he could glimpse figures moving.

Guinan got to her feet and hurried toward the- should he call it a ship? Picard asked himself. He hastened after

her, abruptly realizing that all of his smug assumptions about the squid people, the sea swifts, had been entirely mistaken.

CAPTAIN'S LOG, STARSHIP ENTERPRISE

IMPACT MINUS: NO LONGER
APPLICABLE SUNSET MINUS: 1-3
DAYS EGRESS: AS SOON AS
POSSIBLE

The sea swifts have made an ark for themselves. That was what I saw when their ship rose from the water. They have loaded thousands of their kind inside, along with thousands of exotic

animals, two-by-two, inside.

Inside of what?

The... "ship" was glittering and transparent and made out of glass. No. Not made out of glass, Guinan pointed out Grown out of glass. It had been built in the shape of a giant starfish with five thick, finger-like legs. No. Not built, Guinan reminded me. It had been grown. Like the glass spicules of certain sponges back home on Earth, or the shell of a nautilus, it had been grown. The inhabitants of the Great Scott Sea were planning their escape inside the skeleton of a giant sea creature.

Guinan was right. They knew a great danger was coming, and had been planning, with great care, a possible escape route for at least some small number of their kind. But it became equally clear to us that their plan could not possibly work. No matter how clever their design, no matter how much thought they applied to the problem, chemical propellants just weren't powerful enough. The starfish would burn nearly a quarter of its fuel during the first fifteen seconds of flight, and though it might by that time be accelerating toward Mach-one, it would also be flying barely thirty meters above the ocean surface. A minute later

(assuming it held together that long)
we'd be watching its death throes, about
ten kilometers overhead.

We had to tell them that their practical
engineering could not overcome
mathematical certainties. We had no
choice. We had to.

From now on, through lift-off, Captain
Dalen had decided, all of her crew and
all of the personnel with Picard would
stay close to the Darwin and on full alert
status. By her decree, there would be no
further exploration of the islands. She
was taking no chances, with billions of
desperate, rocket-capable creatures
somewhere underfoot and apparently on

the move.

The last of the repairs on the Darwin and its shuttles were completed just ahead of the 1700 dinner break, nearly three hours early. More cautious commanders, Dalen supposed as she ate her way through a mass of Federation ceramic foam flavored with a few nuggets of sand and quartz, would have applied those extra hours to an early liftoff and a windfall against the margin of error. But Picard's android officer Data and his first officer Riker had a plan for beaming clusters of pulse engines into the holds of the shuttles Calypso and Nadir, strapping tractor devices to their hulls, and sending them into Dyson

uncrewed. The shuttles had become strap-on, robotic engines, hastily modified to give the starfish the added push it so desperately needed.

Captain Dalen, meanwhile, had ordered the Darwin's two lowermost decks to be eaten completely hollow and flooded, providing room for no fewer than two hundred additional refugees. The upper decks would therefore become even more cramped and the water would render the ship as sluggish as an asteroid; but Captain Picard had agreed with Dalen that it was a good plan. Unfortunately, it was impossible to know what Dyson would produce tomorrow, or even during the next hour.

Here, Dalen thought as she finished her meal and emerged into one of the ship's recreation areas, a good idea could easily be ruined by surprises that made it impossible to think the whole plan through in advance. Here, she mused as she turned around to look at the new passage she had created, even the best of plans had a way of failing spectacularly.

Within an hour, aliens were filing through a submerged gangway door-two hundred and fifteen of them, filing through in utter silence.

Picard and Guinan watched from the roof of the Darwin, as if they were standing on a beach. "Look there, Jean-

Luc," she whispered. "Do you see-circling beneath the squid?"

He followed her gaze, and alarm ran through him like shock from an overloaded phaser.

"It's-"

"It's harmless," she assured. "It won't hurt them."

But it was a dark, ominous shape-huge and winged. It crossed Darwin's prow, seemingly indifferent to both the squid and the starship.

"Intelligent?" the captain asked.

"In a manner of speaking," said Guinan.

"Which means it understands the danger."

"In a manner of speaking," came the reply.

Its head was at once eaglelike and serpentlike when it broke surface, not more than fifty meters away. Then a neck, more than five meters long, followed it out of the water. The skin, gleaming and dripping, was at once like the skin of a dolphin and like the skin of a machine. Then a pair of wings followed the neck out of the water,

flapping fiercely.

At first sight, Picard was certain he was viewing an animal. Then the neck had made him wonder if it might be a machine; but once its body was completely out of the water, he knew it was an animal... he knew this even after a jet engine roared to life under each wing and, stiffening its spine and sucking in air, the creature overflowed the porcelain city, then shot through the sound barrier.

Two kilometers away, six more flying fish—he could think of no better name for them—rose from the Great Scott Sea, gathered themselves into nature's

rendition of the missing man formation, and winged off in the same direction the first flier had gone.

"You were right," Guinan said.

"Evolution has taken some strange turns here."

"Impossible turns," Picard said, and reminded himself again that Great Scott was only a random sample of Dyson, and probably not even the most interesting place in the Sphere.

He shook his head. Even at supersonic speed, the fish had no hope of flying to safety across light minutes of ocean, even if months remained before the sun

fell out of the sky. If only he could save just one of those miraculous creatures, he thought.

"It's all degenerating into chaos and blunders," he lamented. "Perhaps the biggest blunders of all time."

"If it helps you at all," Guinan said, "there will be almost no one to judge our actions; and even if there were, they would conclude that there is not much we can do with a structure of this size. We have not caused this situation."

"I wonder," Picard said, knowing that she lived as one of the last witnesses who could judge the Borg for the crime

perpetrated against her people, and he wondered if justice might one day flow from her memory of what had happened. He wanted to voice, again, his suspicions about why an all-consuming neutron star should appear, just as the warp ships arrived from Federation space. Was it time for them to keep a new civilization from making use of the artifact? Or was it simply time to destroy a past they had outgrown?

"You judge yourself too harshly," said Guinan. "I've watched your so-called blunder through Dyson, and-"

"And there's nothing for me to do."

"Except what you've already been doing."

"Which is?"

"Shine a little light, Jean-Luc. Save whatever you can. Any step up from nothing is vast."

"Riker here. Are you just about ready to get the Darwin aloft?" Number One, Picard thought, sounded nervous, worried, and impatient. Riker's vocabulary always became more varied and colorful when he was worried. In extreme cases it became bureaucratic, as if he were falling back on his Academy training jargon. He was not there yet,

Picard realized, so in Riker's judgment the situation was still potentially manageable.

The glass starfish had sailed, driven by the boosters Geordi and Riker had cobbled together from three of the Enterprise's shuttles. In accordance with their instructions, the Feynman, stripped of life support and crammed with spare parts from the Darwin, was now strapped to the backs of Nadir and Calypso, providing just enough kick, according to Riker, to guarantee that the water-laden vessel could be maneuvered to a safer location-whenever that magic place, safer, might be.

CAPTAIN'S LOG, STARSHIP DARWIN

SUNSET MINUS: 2 OR 3 DAYS,
PROBABLY LESS EGRESS: ASAP

It was Commander Riker who came up with the idea of flooding the Darwin's lower decks, to provide us with additional space for evacuation of the "squid people." It seemed a good idea, but I had my doubts about Riker.

"You can trust your life to him," Picard assured me. "He's one of the best officers in Starfleet."

"He is?" I wondered aloud. "I must

confess that I've had some doubts about his judgment, having heard that he plays poker with an empath and a card-counting android."

"Precisely my point," the captain said.
"They usually lose."

WHEN SHE JOINED Picard on the bridge, Captain Dalen had to force herself to believe what the screens showed. Up there in the far sky, on the Dyson homeworld, a remote probe shivered violently from side to side as a stiff breeze came up, then weakened for a moment, then came on again even more strongly. Its source was the southeast. The open pit mine, with its fractured

homes and storefronts, resisted the assault of air and dust... for a minute or two... for mere minutes, and no more.

From the summit of the western wall, the probe broadcast a shivering, panoramic view through sub-space: a horizon on which an ember from the moon became first a brilliant meteor, and then a fiery sword whose blade reached all the way up to the sky-and whence the ember had come... a moon-rise unlike any other in Captain Dalen's experience, or in anyone else's.

On the far side, completely out of view, the erratically accelerating inner surface of Dyson had crept up and bitten a piece

out of its own prototype.

The lesser Dyson never even touched the ground, never did more than dip into the greater Dyson's stratosphere....but at thirty-two times the speed of sound, a mere dip was enough. The world let wobbled and cracked, smoldered and dragged in its orbit. After more than two hours, it was still flinging sparks and hot coals from the wound. Captain Dalen's probe showed the hull of the moon clearing the Homeworld's horizon... and then stopping... and then... instead of rising farther... it came forward and sat down on a sea located halfway between the Bronze Age city and its antipode.

Picard, seated on a saddle to the left of Captain Dalen's station, gazed at the bridge viewscreen, transfixed. The most astonishing part was the slowness-the stateliness, even-with which things were unfolding. The moon was collapsing into the world at a steady twenty kilometers per second- and it took more than a minute and a half for it to disappear. There went the spheres within the sphere, within the Sphere. There went carbon and phosphorus and sulfur: the most abundant substances in the universe realized finally as the pain and promise of living. There went the marionette people. There went spirit.

Meteors.

Meteors and shockwaves everywhere.

And a third part of the city was uprooted, and hurled into the sea. And the waters boiled, and turned to blood. And the city was not.

The Dooglasse ship was more than two light minutes away when the moon collapsed. The aliens were flying with a Federation comlink, but without benefit of their own subspace probes. They were therefore completely mystified by the real-time transmissions between the Enterprise and the Darwin. Though the alien called Captain Dalen was describing for the alien voice named

Riker a moon that had crashed and exploded, Jani's telescope revealed a moon still hovering above its world.

Then, as the seconds passed, the Dooglasse saw it, too. The horror developed exactly as the Horta alien had said it would, as if foretold by the gift of prophetic vision.

"Riker to Picard."

"Picard here," the captain said. He had moved to a station on the port side of the Horta's command pit. Troi, sitting near him, was tense with worry.

"Are you lofting yet?" Riker asked.

"Not quite ready, Number One," Picard replied. "Did you record what just happened?"

"Yes, Captain. I advise that you leave while the entrance lock is still intact. I assume it is still functioning."

"We'll know when we get there," said Picard, and he realized that by then the steadily rising tide of chaos might already have ruined the lock mechanism; and there was no other way out of the Sphere. Inertia still held sway over the sun and the Home-world, as another surge forward brought the inner surface closer to each. On Earth, Picard's

ancestors had witnessed explosions of lava and steam powerful enough to open cracks forty kilometers long. He knew of a man in the Jordan Valley who, long before the first book of the Bible was written, had seen a mountain pitched on its side, then swallowed whole by a fissure wide enough to accommodate all the tribes of Israel. He had actually seen the man's bones where construction workers had found them, still splayed out in the disquieting pose of startled surprise. He knew of an island that had disappeared in a searing red glare-disappeared so suddenly that men and ships were converted to gas and the waters of the Mediterranean stood up like a wall... stood up, in places, higher

than the pyramids; and he knew that these manifestations were of but trifling magnitude by comparison to the quakings and burnings that were about to burst upon Dyson.

Selah... Selah.

RIKER HAD ORDERED Data and the pilot on duty to bring the Enterprise nearly close enough to trigger the lock's external grapplers... almost, but not quite close enough. Closing the distance gave him seconds more of breathing space, and he supposed that seconds would make all the difference in the world, if it became necessary for him to repeat the Jenolen maneuver with the Darwin, the

Dooglasse ship, and the starfish.

The starfish? Riker wondered. We're going to be cramped. It's likely to get awfully cramped in here before this is all settled.

The Darwin had beamed two probes to the Dyson Homeworld. The first, which dived headlong into the atmosphere, revealed nothing on the Enterprise's bridge screen, nothing except wind-driven dust illuminated by such incessant lightnings that they blended undetectably into a continuous yellow glare.

The view from space was no more revealing. The blue-green dot, with its

miniature version of the Great Scott Sea, was now a ghostly dark sphere. As Riker watched from the captain's command station, no snow-capped mountain, no patch of blue ocean, shone through anywhere. The bridge was silent except for the intermittent beeps of their equipment; all of the officers on duty were staring at the view-screen. Riker knew that everyone on the bridge was now feeling inertia's threat more keenly than any screen or sensor could convey. It hung in their minds's sky like a hammer readying to shatter a history.

"Selah," the voice of Captain Dalen intoned. "... Will not we fear, though the mountains be carried into the midst of

the sea; though the waters thereof roar and be troubled, though the mountains shake with the swelling thereof. Selah... the world melted... Selah."

The Horta captain, Riker realized, was recalling the Forty-sixth Psalm. He caught a look of dismay on the face of an officer at his left, then shrugged. An alien archaeologist quoting the Book of Psalms? Well, and why not? Nothing else on this mission had gone as expected.

He feared the possibility of having to bring the Enterprise inside the Sphere; yet he knew that he would do so if the lives of Picard and those with him were

endangered... and yet he also knew that if going inside meant certain destruction for the ship and its crew, he would pull away and live with the decision as best he could. He was not a stranger to difficult decisions, even where Picard's life was involved.

On the right side of Riker's bridge screen, no voice outfeeds came from the cockpit of the Balboa; but he could see that Worf was double-checking and triple-checking the shuttle's controls, ready to turn the Balboa into a lifeboat if the Darwin itself failed. He knew how his old friend would take the decision that he, himself, now considered and dreaded.

The Klingon did not look up.

Worf knew that more could go wrong in this operation than could be foreseen. Even the indefatigable Data had given no new warnings. He could guess what the android was doing in this dark field tonight: running increasingly intractable probability curves, trying to predict scenarios for failure, trying to predict the unpredictable. The central disaster was beyond the resources of Klingon, or human, or human-appearing android to prevent, even if given every manner of brute strength already known to them; and the Klingon doubted that there was any technology accessible inside the

Sphere that could be brought into play in time. He wondered if this time the Enterprise would be forced simply to stand aside and watch what happened, and his warrior's will rebelled against the thought, even as his intellect went on bended knee before the realities.

"Captain Picard," Data called across subspace, "you really should be airborne by now."

"What is it?" Picard replied from the bridge of the Darwin. "Has Great Scott lurched again toward the sun?"

"That too," Data's voice replied, "and something else, far less predictable. The

sun is fading toward the red dwarf state. It appears to be dying, sir."

And how will Dyson's sun die? Picard thought.

"Have you been able to beam in the additional observation probes?" Data asked. "Especially the solar probes?"

"They were not a priority," Picard explained. "We've only just now gotten them away. Can you see yet?" He waited for the android's answer.

Data glanced at the forward screen and saw nothing except his own, Enterprise-eye view of the Sphere's outer surface: a

level, airless plain that seemed endless. For an instant, he admired the complete lack of wear and tear on Dyson's skin, then cut short the amount of time devoted to the irrelevant. Sometimes, his human tendencies seemed annoying; but to be annoyed was also a human tendency. A rational being would never have even made the irrelevant observation.

"Riker to Picard," the commander said from the captain's station. "No downlink yet from your sun probe. It is-please stand by, sir."

Data watched the screen image brighten to reveal a strange star rushing up from below. Indeed, through the probe's eyes,

it now ceased even to resemble a star. No longer sapphire-orange or even sapphire-pink, it glowed with the red of a ruby. Yellow spines sprang out of the corona, appallingly large, and made of plasma. The impression Data received was of a fiery sea urchin dangling in space.

"Got it!" Riker shouted from behind him.

Data checked his display and saw at once, based upon triangulations among four different probes, exactly how far off-center the central sun had been shifted; or more accurately, how much the Sphere had moved, leaving the star in place. This told him more precisely

when the sun would reach the Great Scott Sea. It was "falling" faster than he had anticipated.

"Captain," Riker said, "we're getting readings that just don't make sense. The sun is transmitting enormous amounts of energy directly into the Sphere's surface." His voice was more high-pitched than usual, full of what Data recognized as urgency. "I'm looking at a scan of the grapplers, opposite the Great Scott Sea, on the ice fields. The power surges are off the grid. They've got to be fully charged by now. More than fully charged. But they're not doing anything!"

Riker's face was impassive, Troi noted,

in the moment before he passed on a probe image to Darwin's bridge screen. She saw a necklace of computer-enhanced grappler fire, burning brightly, accomplishing nothing. From their mountings atop the Darwin's hull, the ship's own probes revealed nothing of the calamity happening in the world above. The sun was completely obscured by a warm haze, and because the screen automatically adjusted the lighting to changing conditions, keeping its level of illumination constant, it was only when Troi looked at the meter and scanner readings that she knew that daylight had increased its brilliance threefold. And Data had said that the sun was shrinking, fading...

One of the probes panned across the face of the sun. On its surface, a yellow-white fountain appeared, a new urchin spine, a blaze that streamed out higher than the distance separating Earth from the moon. It hovered for a moment, then came out again-higher, heading purposefully toward the probe. Without any fuss at all, the probe died. Then another probe winked out. Then another.

"That's it," Picard said grimly next to her. "No hope of correcting Dyson's problem. No hope of getting anywhere near that star again."

"That is not entirely true," Data said

from the Enterprise. "You are already too close to the star for safety."

"Warning appreciated," the Horta said, with what seemed to Troi to be deep feeling. She sensed no recklessness or fatalism in Dalen now, only grim determination.

From a great distance, a surviving probe near the Dyson Homeworld showed urchin spines flaring erratically, as if the star were signaling to any interlopers:

I KNOW WHAT I'M DOING. STAY AWAY.

Troi wondered if one or more of the

civilizations infesting Dyson's walls had managed to wrest control of ancient machinery and create, by accident or by design, the illusion that Dyson and its star were alive, and suffering, and aware. Biological overtones.

Superorganism. Troi could not shake off the impression-the stubborn illusion-that Dyson was alive.

As she watched, the probe panned down and across the Dyson Homeworld... down and across the inner membrane of Dyson. It was impossible not to look, and just as impossible not to respond irrationally to what the eyes saw. Even Data's rationality, she knew, was being assaulted and slowed. Logic dropped

dead for them, dropped dead for all of them, as the sun carried the old world toward the hull.

The planet was ready, in its orbit, to be rolled onto the surface of the Sphere, Picard thought. One side of his mind warred with the other, wanting to drag him away from this place. The other side held him spellbound, for there was something fascinatingly violent and dreadfully beautiful in Dyson's agonies. The place was uplifting and utterly humiliating, horrifying and deliciously obscene. He freed himself by breaking the scene down into mathematics and physics. A mental gag order, self-imposed. It was the only way.

"Will the planet actually roll?" he asked Data. "Or do you suppose it will go through the Sphere? Can you predict what will happen?"

"I am already running simulations, Captain, but I am certain that inertia will continue to hold sway. The planet may not roll easily on the land mass."

Another view came on-screen. Racing ahead of the old world, glancing back over its shoulder as it retreated, one of the Darwin's probes showed the first collisions of atmosphere against atmosphere, water against water. Here and there, microscopic shock bubbles

focused hydrogen upon hydrogen and blazed forth as fusion-a billion twinkling points of fusion. Had the computer not automatically filtered out the glare, no one would have been able to see, much less understand, what happened next.

First on the upper hemisphere, then all across the old Homeworld, the atmosphere was lifted and slung forward, meaning that the planet itself was being slowed by friction, meaning that anything not solidly nailed down, including air and water and perhaps a continent or two, was being uprooted by the law of inertia, and would continue forward.

"It will roll," Data said, knowing this for a certainty now. From his station on the Enterprise's bridge, he saw that the Sphere was holding up well against the old world as it scraped across desert, and forest, and lake. On the outer shell, a fierce lightning storm followed the scrape, a migrating spider's web of bolts spreading out over thousands of kilometers, and capable of electrocuting whole worlds full of people. They were the only outwardly visible sign of the impact. The concussions of light grew successively brighter as Data watched, and their westward migration slowed perceptibly.

The view from the Darwin's fleeing

probe confirmed for Picard that the Homeworld was indeed lagging behind, requiring the probe to depend more and more upon telescopically enhanced views, with a correspondingly decreasing resolution. But even as the view began to blur, there was much to see- almost too much to take in all at once.

As the Homeworld grazed a lake, its lower hemisphere, more and more of it, was disappearing. And ahead of that hemisphere, Picard knew, no living creatures stirred upon the lake. The forward-flung atmosphere had piled up ahead of the planet and was crashing down upon the sea, setting the very air

afire. The shock front of ejected air, and water, and continental dust rolled ashore and kept on rolling toward the eyes of the probe, deforesting a super continent before it, too, began losing speed... and then the Homeworld itself came ashore. Into space was lifted a mighty whirl of fragmenting, liquefying land. From the place where Picard and Jani had viewed an alien Bronze Age city, gigatons of up-thrown rock were being converted into beads of glass. They scattered across the sky like billions of glittering diamonds.

And there were diamonds in the sky, Picard realized. The timbers of the old boat at the bottom of the Horta tunnel, the bones in the old house- they were

microdiamonds, now. And as he watched, he knew that the diamonds themselves must presently be bursting into flame and vanishing in puffs of carbon dioxide.

And he beheld a crack in the planet, a crack that ran from the lower hemisphere's contact point with Dyson's inner hull, all the way to the roof of the Homeworld's upper hemisphere. More cracks appeared as he watched. They spread out from the center of the nearer hemisphere, yawning wide and filling with fire, and appearing with such suddenness that Picard wondered if it was possible for shock-waves traveling through rock to cover so much ground so

quickly.

It did not seem possible; but the old Homeworld did not know any better, so the cracks spread and multiplied anyway, and then the very hemisphere bulged and stretched, tried to roll, and stretched again before his eyes.

"Selah..." Captain Dalen sang.

She called that one right, Picard told himself. Moses' miracle of the waters, Plato's lost Atlantis, John's Revelation—even these wonders were reduced to minutiae by the approach of Dyson's Homeworld. Its mantle seemed to be parting and peeling away like the skin of

an orange, but it only seemed so. For it was stony and brittle. It was actually an ejecta blanket of dust and red sparks and steam. Beneath the spreading blanket, something globular and huge fell out of the world, registering, as it fell, barely perceptible but distinctive Doppler shifts on the probe's sensors.

"It is definitely rolling," Data called out from the Enterprise.

"What is?" Picard asked. "What's left to roll?"

"What falls away, Captain. Scans indicate a ball of nickel and iron."

"Then the world has spilled its core,"
Captain Dalen observed.

"Yes," said Data. "Just as the mantle
shook off its atmosphere and continents,
the core has now shed its mantle."

The maddening scale of events and the
relentless, slow motion pace with which
events seemed to be unfolding, had a
hypnotic quality, even, Data admitted to
himself, for him. The fleeing probe was
still outpacing the globe by a wide
margin. Its sensors were still piercing
smoke and lava and steam,
reconstructing, on the Enterprise's bridge
screen, a bright orange globe so vast and
so real that Data could almost reach out

and touch it. The metal core did not shatter as it stretched toward him across the sky. It rolled. He no longer needed the Doppler readouts to tell him this: The globe was definitely rolling- and it seemed that it would roll through the screen and crush everyone on the bridge.

With the old Homeworld down, "sunset" was not far behind. Captain Picard was all too aware of that. For him and his Horta colleague Dalen, only considerations of survival remained-for their crew, and for the the sea swifts on E-Deck aft, who were now pulling the hatch closed behind themselves and saying good-bye to fathers and mothers and siblings and comrades for the last

time.

There was no stopping the sun. All the courage and wisdom accumulated during the course of Pi-card's lifetime were being challenged by the onrush-ing mass. It humbled him with no effort at all. In the end, Picard knew, only the Darwin, the Dooglasse ship, and the starfish would be his concern; nothing else was possible.

After "sunset" would come Dyson's long night-a sunless abyss filled with ice. A great nobility was dying all around him, even if it had been sculpted by the ancestral Borg in the remote past; and the great tragedy within the larger

tragedy was that the expedition would return home with little more than scraps of knowledge by which to read the story of Dyson's many lost worlds-if, in fact, they ever returned home.

Seconds-minutes after they should have left by Picard's reckoning, Captain Dalen ordered one of the surviving probes to gather the last of its power into one intensely focused scan. A fragment of planetary crust, no wider than the city of San Francisco, was tumbling end over end through void. The probe peered through rafts of molten black glass that had, only minutes before, been layers of sedimentary rock. Like blades of grass preserved in amber,

the glass enclosed long, long girders: segments of a monorail system. The train was nowhere to be seen, but at one end of the system, a labyrinth of iron bars glowed white-hot.

"Jail cells?" Troi said in wonderment.

"No," said Picard, "a zoo!" And for a moment, and then for another, the captain of the Enterprise began to understand the Horta captain's need to finish the task at hand, to solve one puzzle before moving onto the next. The screens showed a sudden movement forward and starboard. As far as the eye could see, a thick white vapor was rising off the sea, rising only waist-high. In the direction of

the islands, the vapor rose skyward in a dozen whirlwinds, and

the black clouds gathering on the horizon provided a stark contrast for them. The sky, in that direction, appeared to be full of ghostly white worms.

"Now would be a good time to leave?" said the Horta.

"Another good safety tip," said Picard, as five kilometers off the starboard bow a waterspout twisted sideways and tore a hole in the canopy of cloud cover, letting brilliant red sunlight shine down, ever so briefly, on the porcelain city. It was the last these islands would ever

see of the sun, until the moment it climbed down through the stratosphere and sat upon them.

The Fallen Sky

IT WAS HOT. Picard could almost feel the sun pressing in on him. It was an illusion, of course. Knowledge of the conditions outside the Darwin gave his imagination leave to insist that it was hot here-against the reality of the ship's climate-controlled bridge.

He leaned forward in his saddle at the Operations station as the Horta pilot at his right moved her fingerlike rocky extrusions over her console. As the

vessel finally lifted from the ocean, kindling temperature was reached, at which point waterspouts grew into actual tornadoes and heavy swells began to form.

"Picard to Riker," Picard murmured.

"Riker here."

"We are fully operational, and rising through the atmosphere."

"Glad to hear it, Captain."

From an altitude of ten thousand kilometers, the world below became a flat white plain. Picard realized that he

was staring at streamers of warm mist rising over millions of square kilometers of ocean, pushing gently-ever so gently, at first-outward and outward from the place he had just left. A hundred thousand kilometers higher, Picard thought he could distinguish the outline of the Great Scott Sea's nearer shore.

Far up the inner hull, just barely visible, was a thin scratch marking the path taken by the old world across a lake and a forest. At least, he thought it was visible, without the aid of magnification; but the longer he looked, the harder it was to see, and he began to wonder if the destruction he had witnessed in real time, through subspace channels, might

not yet be visible without the probe because the light now reaching the Darwin from the inner surface was still several minutes old. A quick mental calculation told him that more than enough time had passed, that the scratch should be visible to him; but like so much else in Dyson, it was swallowed by Dyson's immensity.

He called up a telescopic view and... and there it was: The core had stretched like an egg and broken, leaving behind a yolk of gold and liquid platinum the size of Lake Superior. Behind the core, vast splashes of atmosphere were crashing back again upon the land, cooking deposits of colorless methane into

clouds of black sugar. The sky, in that direction, rained caramel and microdiamonds.

Guinan had come to the bridge. She left the lift, came to his side, and stood there gazing at the viewscreen; her usual contemplative expression was replaced now by awe. "The question," she said, as if reading his thoughts, "comes down to the old sin of pride."

Picard looked at her quizzically.

"You wanted to believe we could save Dyson, that we could change its course," Guinan continued, "but that belief, no matter how well-intentioned, turns out to

have been rooted in the old conceits of pride and hope. You were right to think of the Darwin as little more than an intruding virus here. We are saviors of nothing. The Dyson Sphere was not built for us, does not operate by our standards of right and wrong, and so long as we stay out of the way and do not become an irritating little virus, Dyson does not give a damn about us."

"I guess that shows us all where we stand," said Captain Dalen from her command station.

Picard gave net an icy stare and said, "A. little to one side, I presume."

They were two million kilometers high and the bridge screen's main view was panning sideways across the sun. It does look like a sea urchin! Picard thought; and Captain Dalen, apparently taking Guinan's reprimand at face value-do not become an irritating little virus-ordered the pilot to give the sun a wide berth with the Darwin.

Aboard the Enterprise, sitting at the command station, Riker uplinked a viewfeed from the Darwin's main telescope. The officers on the bridge's port side cupped their hands over their eyes as bright light suddenly suffused the area.

Riker squinted at the viewscreen. The grapplers- or, rather, what he had assumed all along to have been grapplers-were still drawing energy from the sun. By now they glowed so fiercely that it was hard to imagine why they had not turned whole oceans into scalding vapor; yet the machines remained surrounded by tropical islands and rainforests that were slowly disappearing under sheets of ice and snow.

"Why is that?" Riker exclaimed. No one on the bridge, not even Data, had an answer for him.

No, he told himself silently, the figures

the ship's computer was now showing him on one of his station's small screens could not be true. A deep scan of an ice bound grappler revealed what had to be thousands of new holes opening into subspace. As he watched, their number doubled, then doubled again.

Dimensional folding? Was that possible? Apparently so, he thought, shaking his head in disbelief as he bade farewell to the universe of Einstein, Hawking, and Cochrane.

A glance around the bridge at the other officers told him that all of them had drawn the same conclusions. A couple were gaping at the screen; others shook their heads at what the sensor readings

on their consoles were telling them.

"Captain," Riker called out, "Dyson is rewriting the laws of physics before our very eyes. I suggest you come to the exit lock right away."

"Understood," said Captain Dalen.
"We're coming as fast as we can."

"Where's the Dooglasse ship?" asked Picard.

"They're ahead of us," the Horta replied,
"and already approaching the lock."

"And the starfish?"

"About a half light minute behind the

Dooglasse."

"Good. Now-"

"The lock has its own set of grapplers," Riker called excitedly, feeling simultaneously awed and defeated.

"They're behaving just as strangely as the ones on the snowfield, drawing tremendous amounts of energy from the sun and... Captain-the view aft-look at the sun!"

Picard found a strange and terrible beauty in the horror. The light inside Dyson was fading fast. The sun, as it shrank, flickered between red and gold, as if the Sphere were drinking in the

sun's power, drinking it to extinction.

"I see, Commander Riker," Captain Dalen said from her station. "Now about the lock?"

Riker's voice replied, "The Dooglasse ship is close enough to trigger it at any moment..."

Troi, standing near Guinan, was watching the viewscreen intently. Picard waited with Captain Dalen and the rest of the Darwin's bridge personnel for Riker's confirmation that the lock was opening; but the word did not come.

"Well, Number One?" Picard asked,

keeping his voice steady.

"Negative, Captain. We have to try opening it from the outside."

On the Enterprise's bridge screen, the Darwin's telescope showed the Dooglasse gamma flare coming into view like a false star, eclipsing the lock. Up ahead, on the ground, perhaps six Earth diameters from the lock, another star winked on.

Grappler flare, Riker thought-or "apparent" grappler flare. It was joined, a minute later, by a whole constellation of false stars, and the sun, in response, seemed to tremble.

"It's no use!" Riker called out with dismay. "We can't get you out."

Picard was trying to think of what to do next. "It could be worse, Number One," he heard himself say, surprised at how calm his voice sounded even to him.

"It's difficult to imagine how," Captain Dalen said.

"No?" He turned in his saddle to look back at the Horta captain. "Just imagine that we are still back there, amongst those islands." Picard mused on that for a moment; an idea was coming to him.

"But the more I think about it, Dalen, that

could turn out to be exactly where we want to be."

"Are you mad?" the Horta captain said, her voice rising as she drew herself up in her saddle. "Are you completely out of your mind?"

Picard ignored the accusation, turning back to the viewscreen. "We must go out behind that star! We can follow the sun into the sea. It's the only way you can save your ship."

There was a pause and then finally Dalen said, "Then maybe it's time for us to be bold, Jean-Luc. I can't think of anything better to do, and I am now

beginning to see the reason in your madness, so I am going to follow your advice. In fact, the more I think about it, the sorrier I am that I didn't think of your idea myself."

"Riker?" Picard asked. "Did you get that?"

"Yes, Captain, and so did the other two ships..." Riker fell silent.

"What is it, Number One?" Picard asked, sweeping his gaze toward the bottom of the great bowl in which a chain of islands was obscured now, before even the most powerful of the Darwin's magnifiers, behind a veil of mist and

storm, and the glare of a cherry-red sun, down there in the bottom.

The voice of Data came back to him:
"We are calculating the time remaining until 'sunset,' and trying to take into account new surges of subspace activity."

"Where?" Picard asked.

"Everywhere," Riker's voice said.
"Mostly the surges are concentrated around grappler points- and in a huge rim forming beneath the Great Scott Sea. But they're spreading everywhere, Captain."**

"Geometric or arithmetic?"

"Geometric, I'm afraid."

"I see," said Picard, realizing that whatever would happen, would happen soon. It seemed to him that Dyson was bracing itself for the impact, preparing for the sun to go through.

But if such abilities existed, why not use them to prevent the sun from going through? It made no sense to him, and yet at the same time it made all the sense in the world: The efficiencies of man were not the efficiencies of Dyson.

"Data?" Picard asked.

"It seems, Captain, that you will have to follow the sun too closely for comfort."

"But can it be done?" Picard demanded.

"Yes-with full shields up."

"And the Dooglasse ship? And the starfish?"

"They will have to be towed behind you."

"That doesn't leave a great deal of power for shields," Riker added.

"Close," Picard said. "It's going to be close." He knew how small the chances

were that his desperate plan would succeed.

"Make course!" Captain Dalen shouted, her mechanical voice filled with the glee of a child.

A very determined child, Picard thought.

"I sense them," Troi said as she listened to the alien cries. "I sense the sea swifts-trapped." Her hands clenched into fists, but there was no one to strike at, no one from whom a price might be exacted for all this suffering.

The cries came from the Darwin's communicators, filling the bridge with

the sound of rasping, of whistling, of voices rising to a high pitch and then falling again. A comlink was picking up the calls of the sea swifts who had remained behind in the Great Scott Sea. To Troi, they sounded like the whale songs of Earth, the calls of the sea dragons of Betazed, and the songs of birds; and yet there was an undertone in their sounds that she had never heard before. She did not know what they were saying, but the emotion in their cries was both understandable and unbearable.

"As the sun begins to plunge down," Guinan said, "Mothers are crying out to their children..."

Troi thought she glimpsed tears in Guinan's dark eyes.

"What are they saying?" Captain Picard asked.

Troi knew the answer to his question before Guinan replied, "I hear mother crying to child, child crying out for father, grandfather to grandchild. I hear people crying, 'I love you.'"

The cries rose sharply in pitch, then ceased abruptly. Without any warning or fuss, they simply went out, like the shutting off of a lamp.

As the details of the coming sunstrike

became more clearly visible, it was hard for Picard to imagine how the Darwin, or anything else, would survive. Where the porcelain city had been, scalding steam was now blowing to all points of the compass, forming huge streamers. Where the streamers grazed each other at varying speeds, eddies broke off into strings of hurricanes, each wider than the Atlantic Ocean, yet microscopic at Dyson's hyperplanetary scale. The streamers themselves resembled cometary veils-which, in fact, they were. At the center of the comet, Picard knew, the porcelain towers were being roasted like dishes left too long in an oven. On distant shores, if shores still existed, torrential rains would be falling out of

the veils, as if making an effort to lessen the sun's heat.

In the Balboa's cockpit, Worf waited for word from the bridge, while far below, great distance and great size made the falling sun appear to be hovering over the sea, as if reluctant to make the fearsome contact. Everything in him was tense, ready for battle-or for a rapid retreat.

His aft screen showed the two refugee ships, secured by invisible magnetic "tow lines."

Back there, in the Darwin's shadow, the ship of the sea swifts was a little white

star sinking toward what was formerly a large turquoise blotch, long known to its inhabitants, as, simply, "the sea." A mosaic of glassy tiles-each so foamy and so light that, left alone in a field, it would have blown away on a gentle breeze-gave the ark's skin a sinister, reptilian aspect. Burned indelibly into the scales, on both her starboard and port sides, the ship displayed her name in bold red script-swept astern to give the illusion of speed. As the wind from the sun increased a hundred fold, something shivered inside the ship, and her arms flexed back, like the wings of a bird of prey descending upon an unwary target.

It was designed to do that! Worf realized, and something in him warmed at a sight that reminded him a little of the movements of those most admirable and beautiful examples of Earth's avian species, the hawks and falcons and eagles. At first glance, the thing they had called a "starfish" looked nothing at all like a spaceworthy vehicle-yet there it was, transformed into an alien raptor worthy of space.

A beep from a console near his arm warned him that the solar wind, as it hissed past the Darwin's magnetic field envelope, was increasing another hundred fold. On the descending sun, three brilliant white fountains-sea urchin

spines-had swung suddenly in the same direction. They were pointing directly at him, like searchlight beams converging.

Suddenly Worf was aware that someone was entering the shuttlecraft from behind him. His hand reflexively darted toward his phaser as he swung around in his seat.

Deanna Troi had come aboard the Balboa. "It's seen us," Troi said as she came toward him, followed by Guinan. Beverly Crusher and Geordi La Forge were behind them, climbing down from the Darwin into the Balboa's hold.

"What are you doing here?" the Klingon

demanded.

"Captains Dalen and Picard ordered us to go below," said Troi. "Just in case," she added absently.

Worf noticed that they were all transfixed-Troi, Guinan, Crusher, and Geordi-all held captive by the sun's approach to the Sphere's inner surface. He turned back to his screen. On the Darwin-facing hemisphere of the solar urchin, a dozen more spines were moving slowly into position, sweeping their gaze toward Darwin, like the eyes of Argus come awake.

On the bridge, Picard understood that the

sun stations, when they had swatted at the Darwin once before, must have retained a memory of the ship's configuration, much as human blood cells retain a memory of every new virus's configuration, in case they should encounter it again.

It recognizes us! he thought, just before the force of the blast turned the aft wall suddenly into the floor; and the floor and ceiling into walls.

Captain Dalen struck the aft "floor" with a sickening thud, and Picard pounded down with a wet snap that told him his wrist was fractured. As he struggled to his feet and stood on the wall, the

Darwin's computer realigned the gravitic field with such lightning efficiency that Picard immediately fell upon his face, coming down hard enough to break his nose.

It could easily have been a lot worse, he realized. The Horta crewmember near him had just missed his head by a margin measurable in gnat's breaths.

"Out of here!" Dalen called. "Everybody out of here!"

There followed a confusion of shuffling Horta bodies, some obeying and leaving, others coming forward.

On the screen, more sun-fountains were taking aim. Many more. Yet Picard did not move. Would not move.

"Abandon ship, Jean-Luc," the Horta captain said. "That's an order."

"You, too," Picard demanded.

"No. You wouldn't abandon your ship, would you? I won't abandon mine. I am not finished, here."

"Nor I."

"Yes, you are!" the Horta shouted, and the bridge screen began to fill the room with a yellow-white glow. "I know you,"

she continued in a softer tone, "and you have another destiny. Now leave."

Dalen was right. This was her ship and her command; he had done everything he could to help her, and would only be another problem distracting her if he remained aboard. Now his duty was to his own ship and crew.

"You gave us a plan that just might work," Dalen went on. "In fact, I'm betting that it will. Time for you and your people to get out of here and give us a chance to put it to the test."

"Bonne chance, Captain Dalen," Picard said as he moved past her toward the

lift.

A lifetime later, the shuttlecraft Balboa, in accordance with both Captain Dalen's and Captain Pi-card's orders, was away, with Worf as pilot. A second later, the Engford-filled with water and piloted by refugees-detached from the Darwin; but when Pi-card looked back, he saw that the second shuttle was staying too close to the Horta ship, like a faithful pet that refused to leave.

It was all part of some great ballet being put on by Dyson's impresarios-except that no one had told anyone who was to dance and who was to be the audience. Anyone could be forced to watch or

dance at a moment's notice as the great pas de deux of sun and inner surface threatened.

"Darwin to Engford," Captain Dalen called, pressing herself against the saddle at her captain's station, "away all boats! Impulse power! Engford, you are

She never finished the order. The ships were ripped from their paths, and seared, and strewn about in a concussion of heat and light; and the Darwin was in the center of the concussion.

The Horta saw something and tried to speak; but then, of course, she could not, and her ship was falling...

Falling...

Falling...

The starfish had been flung ahead of the Balboa, to judge from the views being transmitted on the comlinks. Picard, watching the images, could see that its captain was alternately thrusting forward and braking, trying to gain control of the ark. Oddly, it became a graceful motion to watch. The ocean, some two million kilometers below the starfish, was vaporizing in apparent silence. Nearer the red star, far away to starboard, both atmosphere and water had been hurled away completely. The porcelain city and

the archipelagos, what was left of them, stood now in a vacuum on bare ocean bottom. They stood deep within the corona of Dyson's sun.

Riker listened to the voices from the captain's command station on the bridge of the Enterprise.

"Darwin!" the Enterprise called across the void. "Captain Dalen, can you hear us?"

"Balboa to Darwin!" Picard called.
"Captain Dalen. Please respond."

"This is Jani. We are moving through the position last occupied by your vessel

called the Darwin. There is no sign, we regret to tell."

The comlink from the Dooglasse ship showed the sun lashing out at a distant target, producing another concussion of light.

"I think that was Captain Dalen's ship," Picard said.

"I'm afraid so," said Riker, and then, on the Sphere below him, a bright spot appeared. There was hardly time for Riker to take note of it, the event happened so fast. All in one part of a second, a small piece of Dyson's shell glowed, then the glow expanded,

became deep red at first, then yellower, then whiter, and then faded again to deep red, still within that part of a second.

The sun burned through with a flash.

It never actually touched the Sphere. Dyson's shell merely liquefied, then vaporized, then parted and blew away.

Someone behind Riker let out a cry. Riker sat stunned, unable for a moment to think or feel.

"Impossible!" one of the officers at the bridge engineering station aft was saying. "Just impossible!"

But there it was, on Riker's own forward view-screen. The only view more incredible than the sun eating its way into space was the scene coming to him from the starfish.

As if somehow parachuting down through the vacuum, the still-out-of-control ark was hovering, at what appeared to be merely mountaintop altitude, over a storm that reached from flat horizon to flat horizon. Millions of kilometers ahead, where the sun had set, a pillar of fire rose from the maelstrom and pointed straight into the sky.

This was no ordinary fire, Riker knew. It was air and water falling through the

hole, first yanked irresistibly after the sinking sun's gravity, then blasted back inside the Sphere. Sheets of cooling steam and ionized gas and glittering flakes of snow caught the last rays of the fallen star and threw them to the walls of Dyson, which were bright enough to navigate by. The starfish-eye-view showed rips in the cloud cover, through which whitecaps a hundred times higher than Everest shone-no, not whitecaps, Riker realized: rapids. Everything in the Great Scott Sea-water, air, and over there a whole island-was being drawn toward the crater.

The starfish, though high above what passed for Dyson's ionosphere, was also

being dragged slowly sunward. During the final moments before burn-through, a thin canopy of ionized gas had been hurled into space, hurled at an impossible angle, high over the shores of the Great Scott Sea. Now the starfish, its engines apparently under only partial control, was being carried down by streamers of sunward-bound gas, as a balloon is carried by the jet stream.

Riker feared that it would end for them soon, with their ark dashed upon the rapids. As the seconds passed into minutes, he knew it would end that way, and then Data turned toward him for a moment.

"The rapids themselves appear to be dying, sir" Data said to him before turning back to the screen.

Riker saw that something was rising in the ark's path, rising higher than the water, higher than the air.

"Impossible!" Riker said, echoing the engineering officer.

"Apparently so," Data said from his station, "but nonetheless it is happening."

"Enterprise to Balboa, what do you see?" Riker asked. At Worf's bidding the shuttle showed him a different perspective from the starfish: higher and

looking straight down on the hole's west rim.

Worf had caught sight of the Dooglasse ship caught in a swirl of crystallizing vapor, struggling to maneuver through a snowstorm in space, but it was now shielded within the Balboa's force field and magnetic cocoon. "Dyson's Spear," as he was already calling that comet in his mind, pointed back through the disintegrating waterfalls, back through the hole in the Sphere, with the cocoon of two ships buried in its tail. Hydrogen, oxygen, silicon, and carbon, stripped of their electrons, swept past Balboa's bow at a significant fraction of lightspeed. The ship's magnetic field envelope

shunted the charged nuclei and electrons to either side, much as the prow of a boat shunts water to port and starboard.

Worf knew that he was unlikely to see such a sight ever again; yet even the cometary spear was a mere detail in Dyson's vast and violent war dance.

"Riker to Picard," Riker's voice said.
"Please report."

La Forge glanced at Picard, sitting next to him in the Cousteau.

"We're seeing teeth down there," Troi answered for the captain. "A whole mountain range, rising like teeth out of

the sea floor... thirty kilometers high, now. It's damming the rapids."

Mountains? Geordi wondered, peering at his instruments. How? Dyson's powers-that-be had failed to move their sun. How, then, had they managed to plow so much mass into mountain ranges so quickly? And then he guessed that force fields covered with mud and water would look much like mountains.

Hollow mountains.

It seemed as good an explanation as any, except that his instruments were showing-what had Data called it? Dimensional folding?

Whatever it was, it was now manifesting along the entire hull of Dyson. Geordi could no longer be certain of what his scans were showing, because the multiple thousands of subspace microverses manifesting up, down, starboard, port, forward, and aft were beyond measure. Soon, Dyson would be completely invisible to his scans. From his engineer's perspective, the Sphere was about to drop out of the universe.

He was beginning to suspect that Dyson's powers-that-be were quite insane. He glanced at Worf next to him, but the Klingon was a stone figure.

"Picard to Riker!" Picard's voice said.

"Riker here, Captain."

"Where is the neutron star? Still on the same course, I presume?"

"Still on trajectory, Captain," Riker said, sounding, to himself, less awed than he felt. Then, after a long silence, he added, "As last predicted, it has missed the Sphere."

Yet another miracle, he thought, in a string of miracle-moments that numbed the mind's ability to absorb. Riker wondered then if the Dyson Sphere had altered his capacity to ever be surprised

by anything again.

The neutron star missed? Impossible, Picard thought. Like everything else about Dyson, it seemed impossible: For all the effort on the part of those who had sent it, they had missed! The images transmitted from the Enterprise showed the neutron star moving away, clearly unable to compensate for the Sphere's last-minute maneuvering.

Ahead of the Balboa, cometary streamers were still gushing up through the hole. Picard stared at a bright foaming mass of what looked like waves breaking at the foothills of a mountain range. The breakers had to be utterly

huge to be seen across the gulf that separated him from the shore, and yet the distance was shrinking before impulse velocity. He swung one of the Balboa's scopes aft, toward the Dooglasse ship, where Jani and his crew would be looking around in bewilderment, and perhaps in terror, at a world that was darkening rapidly. Night was falling for the first time in their history, but no stars were coming out to light the darkness, except for the grappler flares, visible only in computer-enhanced green, and now becoming invisible altogether.

Geordi saw that the starfish's engines, too, were becoming invisible, though the ark appeared to be gaining control now,

as it made headway against the ionosphere's current. His scans from the Balboa showed the starfish descending toward an old river delta before its engine signature gave him-for want of a better explanation-the illusion of folding into subspace and winking out.

The engineer was certain that a sufficiently powerful telescopic view would allow him to see the starfish, still out there somewhere, still in the visible wavelengths of light, still moving under its own power-but there was no time for collecting more pieces of the Dyson jigsaw. The wide course correction Worf was making to avoid an uprushing snowstorm-one of Dyson's reefs-took all

of Geordi's attention from the starfish, and suddenly the edge of the mountain range was flying toward him, threatening to swallow the Balboa. The rim seemed closer than it ought to have been, given Worf's piloting skills. It was as if... as if the opening were contracting.

Geordi tore his gaze away from the mountains- on one side the night surf, on the other side a deep well with a comet stuck in it-long enough to take a glance at his altimeter. It showed nothing-nothing sensible, at least. According to Balboa's instrumentation, Dyson no longer existed.

The instrumentation of his own senses

and his own common sense told him otherwise, of course, as the Balboa and its cocoon plunged through the ionosphere and the view in all directions was diminished by a yellow glare.

The ring of hollow mountains looked real enough, even through the glare of ions against the Balboa's shields; real enough, and spine chillingly close.

Worf was thrusting hard to starboard, swinging the sun directly into the Balboa's path, and still the cliffs looked as if they were about to scrape the port side. They were covered in a glaze of ice chips and accelerated hydrogen, and the Balboa shot by too quickly to record

even a single snapshot of the black shapes that struggled on a crack in the glaze. They were the size of elephants, the shape of dust mites, faster than cheetahs, and smarter than Data. Like an army of corpuscles gathered at a flesh wound, they spun a fibrous scab that was partly webbing and partly their own bodies. Of this army, only one member recorded the passage of the cocoon. It took notice that the two ships inside appeared to be growing, filed this fact away for future reference, and returned its attention to more important concerns.

Two-tenths of a second later, Worf was piloting in open daylight. In another six-tenths of a second he had swung the

Balboa ninety degrees to port and, while preserving all of his forward momentum, was vectoring away from the sun as hard as he could without wrenching the towed Dooglasse ship apart.

Twelve seconds after that he looked around and saw the outer shell of Dyson, as clear and bright as high noon. He breathed a sigh of satisfaction, feeling as gratified as if he had defeated an enemy in hand-to-hand combat, just as Data said from the Enterprise, "The Sphere is slowing."

"Slowing?" Picard asked.

"It has stopped," Data added.

Worf gazed at the horizon in awe, thinking of the control of mass and inertia involved in stopping such a large object.

"It is now reversing its motion," Data's voice said without emphasis.

Worf muttered a curse and vectored the engines elsewhere, lest the horizon rush up to meet him.

Caught between the sun and the ground-again; but vectoring, this time, far beyond the reach of the urchin spines, the Balboa flew onward. Picard shook his head in wonder and exhaustion and

sat back at his station, feeling suddenly unnecessary and insignificant. Down there, on the other side of the shell, most of an ocean had been lost... and a world as old as Earth... and its moon... and whatever lands they had bowled across... and no fewer than two races had probably perished.

He had tried to prevent this damage, but to the Dyson Sphere, it all added up to barely more than a bad scrape. The superplanet, having bled a little, was bandaging up now and moving on at its own super-planetary scale.

Hortas. Sea swifts. Marionettes.

Try as he might, what Picard was certain he would never forget, what he would never escape, was the realization that Dyson took no notice of them.

Dyson's Web

"RIKER TO DALEN, please come in."

"Darwin, this is Balboa. Darwin, Darwin, we have made safe exit. Repeat, this is the Balboa, answer if you can hear me."

Captain Dalen heard the bailings from the Enterprise and the Balboa, but she did not respond. She had sent her last message just a few moments ago.

The message was: "Thanks for the good advice, Jean-Luc."

No Federation here-not now, not ever-forever. No one was going to assign her to a new site before her exploration here was complete. The Darwin had come down on water-again; And this time she was down for the long haul. This time, the sun had seen to it that her ship would never fly again.

All well and fine, the Horta captain decided. It would take forever to visit all of Dyson's unexplored shores; and by practical human standards, she and her crew really did have forever.

And-oh, the wonders that lay ahead!

"It's very close now, Captain."

Lieutenant Jee was speaking, who was at present assisting three other squid with the lashing of the shuttlecraft Engford to the Darwin's starboard hull. One of the Great Scott Sea survivors had taken Jee's name, and another had taken Ensign Lenn's, and another Lieutenant Veere's, presumably as a sign of gratitude for their help.

Before the lines between the Engford and the Darwin were secured, sunrise erupted through the same well the sun had dug and fallen into more than a

hundred million kilometers downstream. The star rose swiftly, returning in triumph to flood with light the vast realm it had so recently abandoned. In only two minutes, it was clear of the well, lofting like a brilliant balloon, its dawn banishing the cometary veils. Twenty minutes later, it might have been mid-morning. Two hours after that, it might have been noon.

Captain Dalen was nagged by an impression, for no reason that she was logically or rationally aware, that the changes occurring outside were even more dramatic. She felt-she knew-that the humans would be shut off from her till the end of time; and she found herself

thinking that all the universe was shifting... swelling... all of it except right here!

Nightfall had come again to the Dooglasse, whose ship was now joined to the Balboa, inside the Enterprise's protective cocoon.

"It's still shrinking," Riker called excitedly.

As indeed it was, Picard saw as the Enterprise stood off and watched. For the first time, the Dyson Sphere really did look like a planet. It was as small as Earth now, and growing smaller with each passing second. The instruments

suggested that it did not exist at all, except visually and as faint distortions in the geometry of spacetime.

Riker shook his head. "Captain, it should have more gravitational compaction than a neutron star by now."

"I know," Picard said, "and by the time it's down to the Enterprise's size, whole Earth masses will be compressed into spaces smaller than golf balls. It should be a black hole, by then."

"But I'll wager it won't be," Riker said with a faint smile.

Picard nodded. "I begin to think we've

been oversimplifying things here, don't you?"

Riker shrugged. "What else can we say? Everything we know tells us there's a whole sun down there, whole star systems full of suns if we count all the mass from which they built it-and yet at Dyson's surface I'm registering less than one-sixth Earth gravity. The only rational explanation is that Dyson doesn't quite exist in our universe any more. And that isn't quite rational."

"Yet it is extraordinary," Picard muttered under his breath, as a fuller realization of what had happened came into his mind.

But Data was ahead of him. "Captain," the android said, "did we wake the Sphere's artificial intelligence to all this action?"

For once, Picard knew that he was ahead of Data. "We might have been entirely superfluous. In fact, we might even have been a slight impediment."

"Do you think so, Captain?" asked Data.

"It's entirely likely," Picard said.

"Entirely likely means yes, does it not, since the word 'entirely' takes all doubt away from the word 'likely.'"

"Quite right," Picard said, gazing at the telescopic view of Dyson's shrinking disk.

"Then are you suggesting that we should have stayed away, since we were not needed?"

Picard rebelled at the thought and said, "Data, I wouldn't have missed this for anything."

"Thanks for the good advice, Jean-Luc." He thought again of Captain Dalen's last message, and wondered if this universe would ever see her and her crew again.

The Sphere was a distant gray bead now, contracting faster and faster through that ghostly hole it had dug in the cosmos-and preparing, no doubt, to pull the hole in after itself. No doubt, it would also pull a part of Picard down with it, as it folded into microverses and tapped energies.that could only be guessed at.

"Be careful what you wish for..." his mother had warned.

Well, he had gotten more than he wished for, as he hoped and yet he also dreaded that he would ever again find something as mysterious and horrifying, as wonderful and as belittling as the Dyson

Sphere. This seemed to him so entirely unlikely that he returned the hope and the dread, for now, to that place of dearest wishes that waited in his archaeologist's heart. He would visit those wishes again, as surely as his blood visited the ventricles of his engineered heart.

"It has gone quantum," Data announced.
"Dyson's gravitational field is... virtually nonexistent."

Quantum. Smaller than any of the blood cells that flowed in his veins... smaller than a virus particle-Dyson, the whole thing... smaller than the diameter of a proton. Picard hunched slightly forward in his station, with his arms folded

across his chest, as if he were trying to keep warm. And there was a coldness in him, a chill born of the realization that the greatest object ever constructed had just sunk from view, leaving him adrift in unfulfilled expectations. Adrift, alone, abandoned?

No, he told himself. He was adrift, but not alone. Something was out there, and it was coming his way.

And it knew his name.

Locutus...

"Data?"

"Captain, there is a Borg vessel at the limits of our sensor range."

So, it was not over yet.

"What's it doing?" Picard asked.

"Nothing at all, Captain."

Picard sat back and considered, then gazed at Riker. Number One was wearing his cautious, annoyed look.

"Perhaps all of our assumptions were not wrong after all," Riker said.

Picard found himself agreeing, in a way: "Relativity and dimensional folding aside, I'd say even a clock that isn't

running would have to be right twice a day."

Riker shook his head. "Thanks, Captain."

Picard watched Data put an enhanced view on the screen, showing an ever so faint optical distortion in the place where Dyson's center had been.

"I'm thinking about the assumption we came to when the neutron star first appeared," Riker continued, "about how some distant remnant of the Dyson engineers-perhaps the Borg-might have been trying to destroy something in its past that could be of benefit to us. Something in the Sphere."

"Whatever it was," Picard said, "we didn't find it."

As he spoke, the Borg cube disappeared in a wash of subspace distortion. Either it had been destroyed somehow, or it had sped off in a hurry, fleeing faster than any Borg ship had hitherto been clocked. Simultaneously, the tiny distortion on Data's display finally pulled the hole in behind itself. The Sphere had left no footprints, quantum or otherwise; but Picard could not shake the feeling, the deep instinctive knowing, that the Borg had disturbed a sleeping tiger... and it was now following them.

It might very well be very far from over, he thought. But of one thing he was certain: The Sphere's example-its future significance for Federation thinking-would not be easily exhausted. It represented what was "merely" an early, perhaps even sinful attempt at cosmic engineering, an extravagant effort by an intelligent species to change the face of the cosmos. The human mind, so recently out of its cradle, still boggled at the idea of remaking a galaxy, or an entire universe, nearer to its heart's desire. Against human wishes, the universe might very well be a "sorry scheme," as the poet said; but human desires were still too vague to know what to want.

Knowledge, love, a graceful life? But when the day of self-knowledge arrived... what then?

And for a moment Picard feared the wishes that waited to conflict with those of humankind.

Epilogue

The Fabulous Riverboat

CAPTAIN DALEN OPENED the aft hatch and tractored onto the roof of the Darwin. A dozen of her crew had gone out ahead of her. They stared at the Engford, the sky, the sea, the beings the humans had named the sea swifts. They

let the sun warm their hard backs. They breathed deep of Dyson's air.

The air... the water... the Horta captain tried to form for herself an estimate of how many days, or weeks, the shockwaves from the old world and the Great Scott Sea would take to reach her from various distances in the Sphere, and whether or not they would have, by that time, diminished to little more than loud bangs.

She stiffened, reluctant to dwell on the question, but drawn irresistibly to finishing the calculation, once she had begun it.

Then into her icy black veins flowed blood. She had arrived at an answer the blast from the Great Scott Sea, dissipating across a radius of more than one hundred million kilometers-more than five minutes away at the speed of light, vastly longer at the mere speed of sound-would arrive as a long, rumbling roar, bringing winds gusting up to ninety kilometers per hour. They would gust for six days; but the Darwin had already endured far worse, she told herself. // means that we will live!

"What lake is this?" asked Lieutenant Jee. "What sea?"

"No lake, no sea," Captain Dalen said

thoughtfully. "It's a river whose west bank lies more than fifteen hundred kilometers to starboard, and whose delta is a hundred million clicks astern. You'll find its source another hundred million in the opposite direction."

"Then, it could take lifetimes to find all the hidden coasts, all the people."

"Horta lifetimes," the captain said, and felt the warmth within her that was the Horta equivalent of a smile. She looked downstream, down a stream longer than the distance between most planets, and she contemplated the feeling that the universe outside had been swelling, just before the Balboa and the Enterprise

disappeared. She wondered what "quantum dimensional folds" and "baby universes" really meant, and realized that she already knew. She and everything around her was smaller than a virus, smaller than a proton, and more ghostly than a neutrino... from a certain point of view...

"So much to see," she continued. "So much to do."

"I want to see the place where the old world rolled," Jee sang excitedly. "What must the land look like there?"

"I believe we will be able to find out," said Captain Dalen. "I have been

reviewing the maps, and I have found that one of this river's tributaries feeds from the lake over which the planet slid."

"And the hole in the Great Scott Sea?" Jee asked. "What must it look like, up close?"

"We have no choice but to find out," the captain said. "We seem to have inherited the Enterprise's mission, whether we like it or not. We've got this ship, and we've got unexplored light minutes through which to creep, and we've got a faith to keep."

"A faith? With whom? With the

Federation?"

"Yes, and with ourselves-and with..."

She swept her gaze up the sky, again-up the river in the sky-again. She turned her back on her lieutenant and slid uphill, toward the bridge.

"With whom?" Jee called after her.

"With whom?" she insisted.

"Let's go somewhere," Captain Dalen replied to her shipmate. "Thataway."

The End