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A dark but important blot

Claude Nicollier was the first and is so far the only Swiss to have been on a space mission. In Geneva he talked to me about what it was like.

e has been higher up than any other Swiss. Claude Nicollier, who turned 50 last September, has twice been able to see the world - and of course Switzerland - from a height which we ordinary mortals know only

René Lenzin

from science fiction films or from satellite pictures. On his second trip into the depths of space he took a Swiss flag in his luggage, and he later presented it to the Swiss Abroad Museum in Geneva.

A Switzerland without lights

On that occasion Nicollier showed pictures of his second mission with the



place in December 1993. He says that how Nicollier describes the beginning circling the earth again and again is a of the Hubble mission on a cold Decemgood geography lesson. An astounding ber night: "After two minutes it was alamount of things become clear from ready day, and after 25 minutes we were space. On one particular night he made flying over Madagascar in mid-summer. out the lights of Turin and Milan, but to It is very impressive to travel from winthe north of them everything was dark. ter to summer in less than half an hour". "Apparently they put out the lights in It was also on this island off the coast of Switzerland at night", says Nicollier to Africa that Nicollier was able to see the the fact that from that height you can extent of environmental pollution and see practically nothing of Switzerland. the effects of human over-exploitation Tiny Switzerland with its many moun- of nature. tains is a dark blot.

that. Although Nicollier has lived in Their main aims are to release satellites, Houston since 1980 and works for to repair telescopes, to carry out scien-NASA, he has maintained his close ties tific experiments. And all this happens with Switzerland and particularly with under the most extreme conditions his family. He comes back to his home- which can unnerve even the most exland regularly for visits and lecture perienced professionals: "No astronaut tours. The Federal Institute of Technology in Lausanne has just appointed him have a particularly uncomfortable to the rank of professor. He did not leave Switzerland because he was two minutes". unhappy here but because it was too small for his particular ambition: "I would not have got so far if I had not transcended national boundaries".

to do so! In 1992 a long period of waiting came to an end. With space shuttle Atlantis Nicollier fulfilled what had for so long been a cherished dream. Following this experience he was a trip on Lake Geneva". chosen the next year for a second space flight which was mainly devoted to this is deceptive. Nicollier remains a repairing the Hubble telescope, a mission which was highly successful. This and immense ambition. This was not least thanks to Nicollier, whose year once again he will be tricky job it was to manipulate the grab- out in space for the third bing arm with which the Hubble telescope was brought in and on which his and he will once colleagues stood while they were more be seeing the saworking out in space.

"Impressive pictures"

From this height you get what is literally a global view of things. It astounds,

space shuttle Endeavor which took but it also gives food for thought. This is

Observations such as these are not of But not without importance for all course at the centre of space missions. will tell you that he is not afraid. You feeling during launch and in the first

"Like a trip on the lake"

Earthly feelings from someone who This graduate in physics and astro-tends to move in extra-terrestrial dimenphysics was a Swissair pilot before sions. The talk is of rocket speeds of 8 he went over to the European Space kilometres a second, of constellations of Agency and then to NASA, where he re-stars millions of light years away, of ceived training as an astronaut - the first months of preparatory and simulation and for many years the only European exercises, of working procedures in space, etc. And all this said with a casualness which led one listener to make the remark that Nicollier was recounting it all "just as if he had gone for

It is true it sounds a bit like that. But pioneer - with great enthusiasm time on another shuttle; me view of our planet as we are showing you with our one or two - with all modesty and with reference to tiny Switzerland.

Switzerland between 1:5×106 and 1:25×106

Flying through the air on a magic carpet

To see things from high up, from far off, black points showing a few towns. in their relativity and in their relationships, to keep yourself above the mêlée, tains. Not much more. that - to use a very good expression - is to look down from Sirius. But Sirius is ready imposing countries on that scale. far away. Very far away. Nearly nine But Switzerland, no. A small country. light years away. It is too far. So I cannot Sort of an island. Yes, a little country see Switzerland if I look down from full of mountains. They must have a

compress the orbit. Let's go down.

are miraculous things! They are at one and the same time the landscape itself once panoramas, dictionaries, tele- hospitable. scopes and flying carpets.

carpet: 1,000 to 5,000 kilometres).

to search for it. Centre of the map. Middle of Europe. Country much encircled. Has to put up with its neighbours. Territorial imperative: must have had to defend itself to keep going. less. Quickly in, quickly out. Transit. You can see the line of the frontier, small

Mountain ranges. Particularly moun-

France, or Finland, or Spain are almentality full of slopes, ridges, passes, So let's reduce the distance. Let's valleys, must the Swiss. They must admire and respect effort. Going uphill: And let's consult the maps... Depend- that's labour, that's style. A bit slow, a ing on the scale, to look at a map is like bit heavy. Economising breath. All the going in a space shuttle, or a strato- peoples of the mountains, of the valleys, spheric balloon, or an aeroplane... Maps of the slopes, come together. They are different from the peoples of the plain. More individualist, obstinate. More and the means to fly over it. They are at suspicious at first, then afterwards more

No big spaces, no vast plains, no Let's take a large map of Europe on a ocean skies. Their big spaces are vertiscale of 1:5,000,000. (Altitude of flying cal, skies in altitude. They'll probably go looking for great adventures else-Where is Switzerland? Ah, yes. Have where, will the Swiss. They will expatriate themselves.

Let's go down a bit. Let's unfold a map on a scale of 1:500,000. Altitude of rion. Valais. Altitude of flying carpet: flight: 100 to 500 kilometres, more or just above the peaks, 6,000 metres.

Oh! For goodness sake. It's very densely populated. It's like an ant heap. Between the mountains. Full of roads, each other. Fences round the gardens. credible, the number of footpaths. Orderliness. Tidy plots. Accounts. travelling, to get some extra air, must pet. There, right on the Mauvoisin Dam.

again. As they don't have even a road which ends up near by. much room, they do it in miniaand foremost a latitude. Contours. A really does.

Let's go down a bit more. National survey map on a scale of 1:50,000. Any old one taken from the pile. No. 263 -Wildstrubel. Altitude of flying carpet: 25,000 metres.

Very fine map. Excellent mapmakers, these Swiss! Obviously would be, with all those mountains. They clearly like accuracy. They have precision instruments. They surely make them themselves. They wouldn't have accurate maps without them. Logical.



Aren't they likely to be a bit pernickety too, obsessed with the minutest details? In little countries details are always im-

Complicated contours. Like a crushed up piece of paper. Windy roads. Must know how to build bridges, those Swiss. Perhaps even bridges with bends in them. A real headache, bridges with bends in them. Calculations which go

Let's go down even more. National survey map on a scale of 1:25,000. Another dip into the pile. No. 1346. Chan-

Snow. Glaciers. Water. Dams. So. hydraulic turbines on a huge scale. Complicated these turbines. Special steels. Precision machining. You have towns, villages. Forests. Pastures. No to know how to do that. They certainly big lazy-flowing river. Don't they feel a don't do it only for themselves. They bit hemmed in? They probably do. They sell them, custom-built. Footpaths. Yes. have to be careful not to walk on top of thousands of footpaths, on the map. In-

Let's look at them a bit more closely. Organisation. Regulations. Must like Let's go down. Let's land the flying car-

And let's walk. Good boots and off in Ah, yes, the Alps! Geologi- the direction of the Chanrion hut along cally young. No rich minerals the east bank. Three easy hours of to get out of them. So no heavy walking. Superb. Rather slippery deindustry. So they process what scent towards the moraine of the Brenay they import from not too far Glacier. The Swiss Alpine Club's Chanoff. And then they export it rion hut. Solid, clean, orderly. There's

Why on earth? Cars!! That really is a ture, lace-like. Machine tools, bit much... THEY'RE GOING TOO Microtechnology. A country is first FAR! That stinks of disorderliness. It

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