

# All Explorers



The best thing of all in life is to make discoveries, and  
to share them with other  
explorers.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

In this great big world where we live, there are always  
discoveries to be made.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

Sometimes searching takes us far away from each other,  
and we have had to find new ways to talk across time  
and space.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



Now cameras can copy what we see by measuring light  
that falls through their lenses...

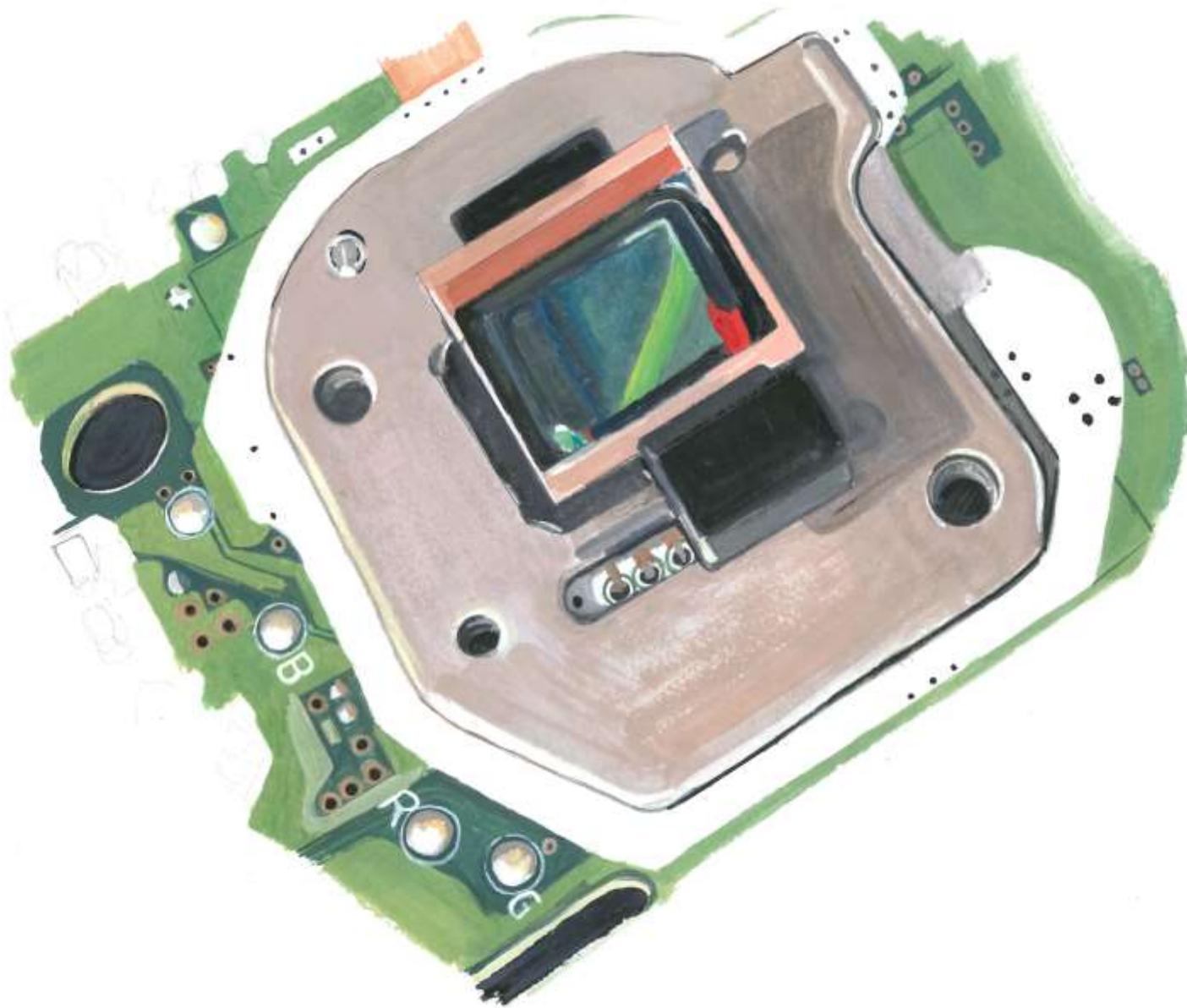
00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

Onto computer sensors that can map it by brightness and colour into tiny squares, too small for our eyes to see.

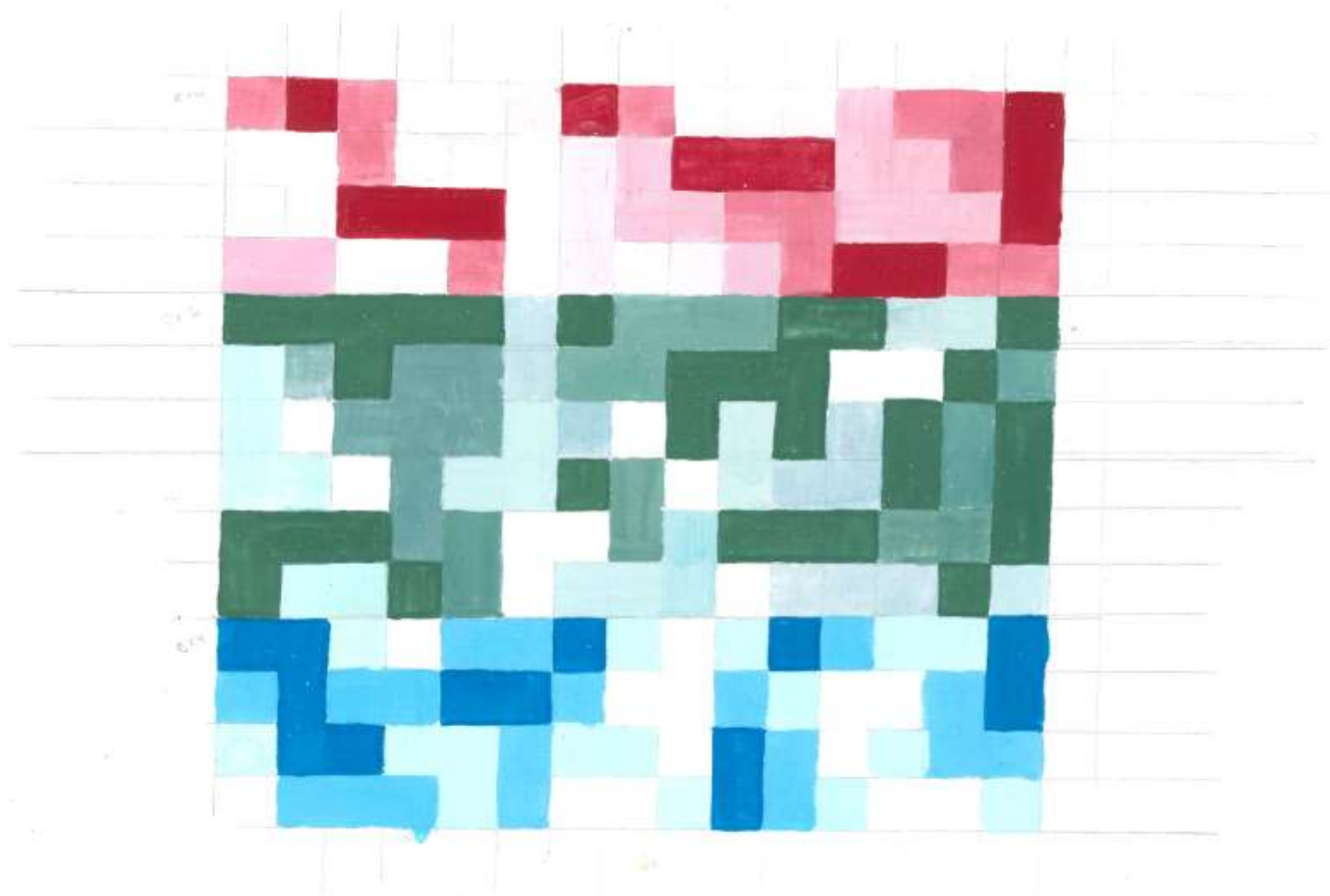
00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

This is like a puzzle, and each piece is given a label,  
showing where it fits and how it should look.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

All this information is turned into long lists of ones and zeros, that computers can send out much, much faster than any person can read.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



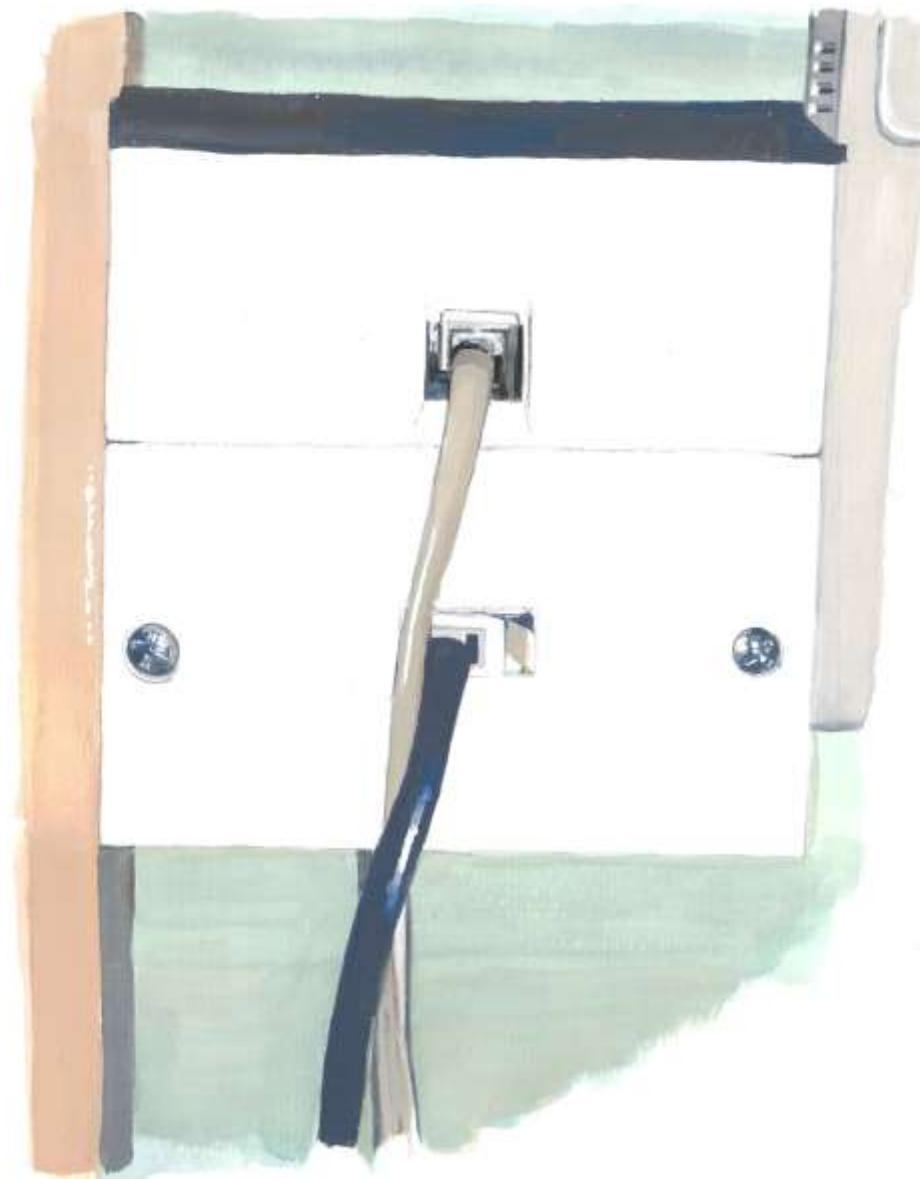


00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



Cables carry these lists away on their journeys as electricity in copper wires, or light in strands of glass thinner than hairs.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

They travel all around us, in pipelines  
under the ground...

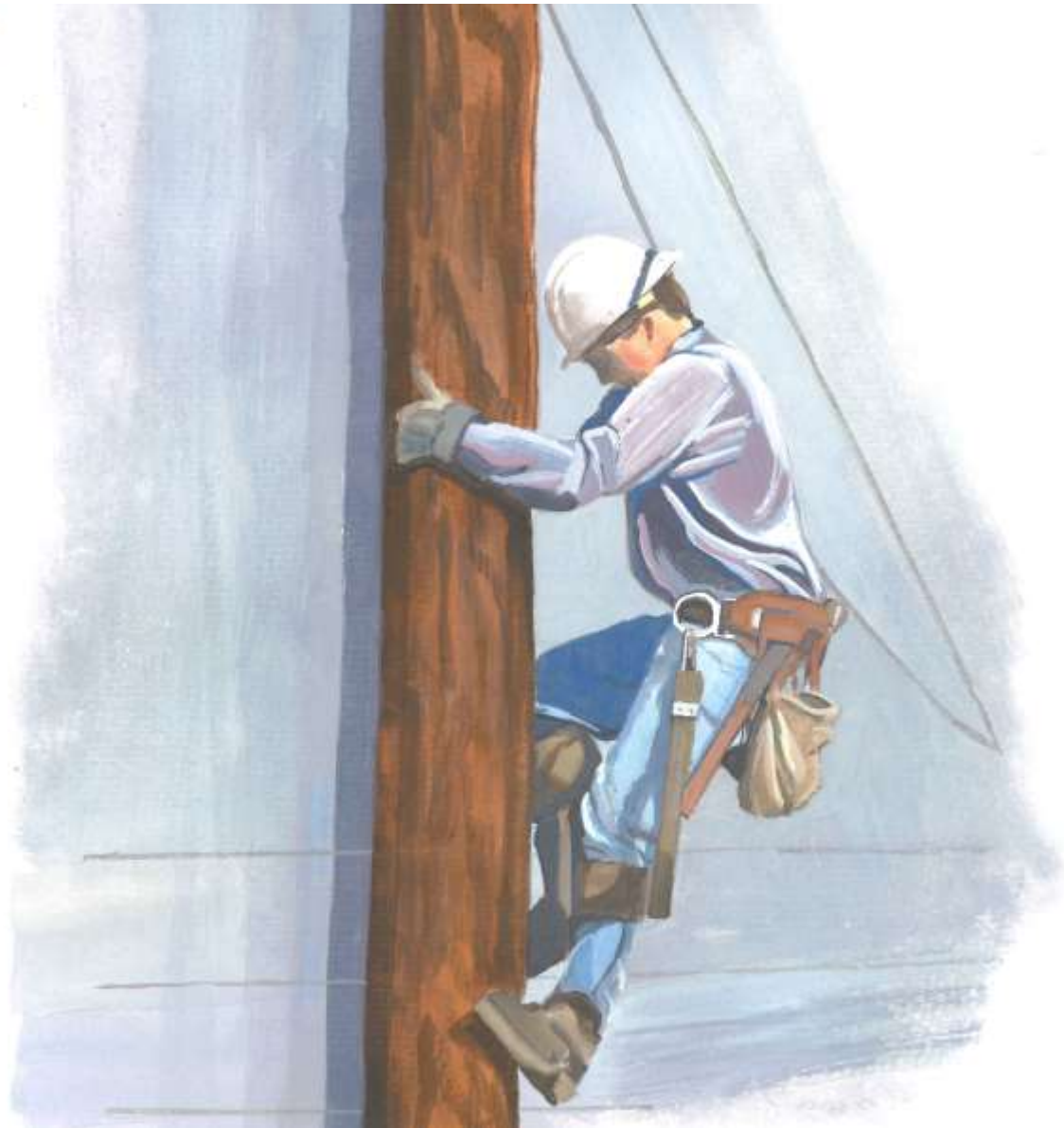
00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

... through wires overhead...

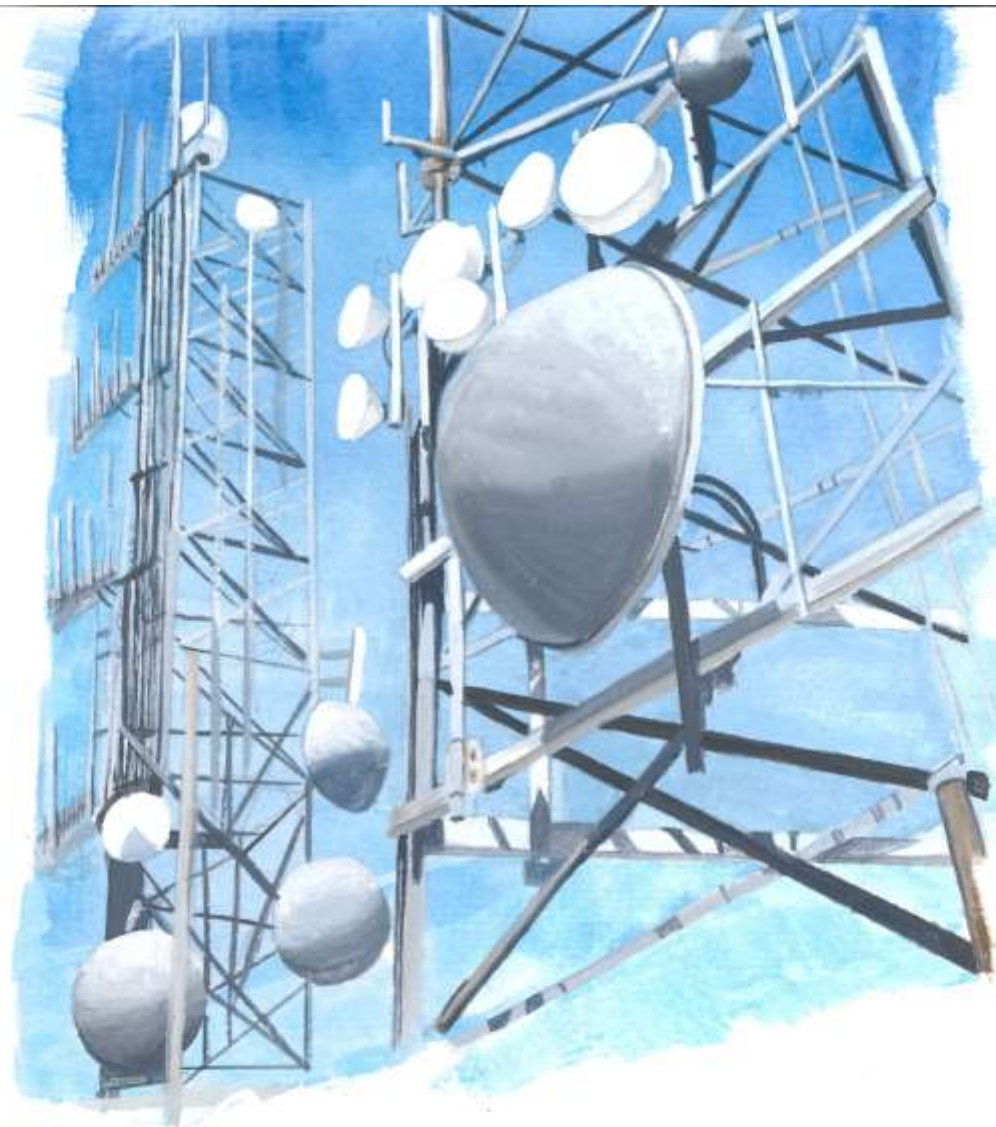
00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

... and as invisible waves, carried through the air.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



Across the lands and across the floors of the oceans,

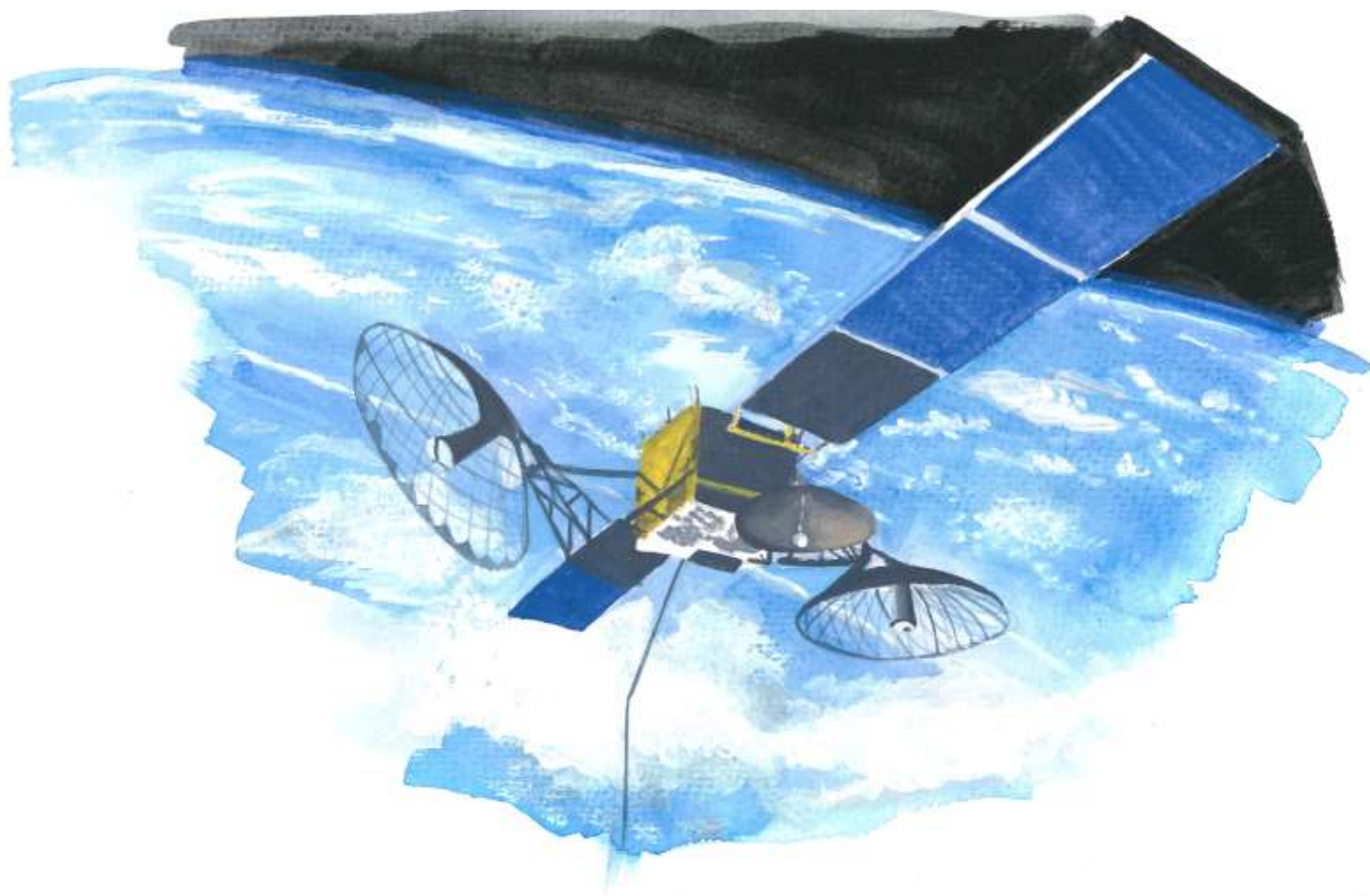
00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

Even beyond the Earth, to satellites hanging in the cold  
dark of space.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

Day and night, they are passing through quiet villages...

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

... and crowded cities.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



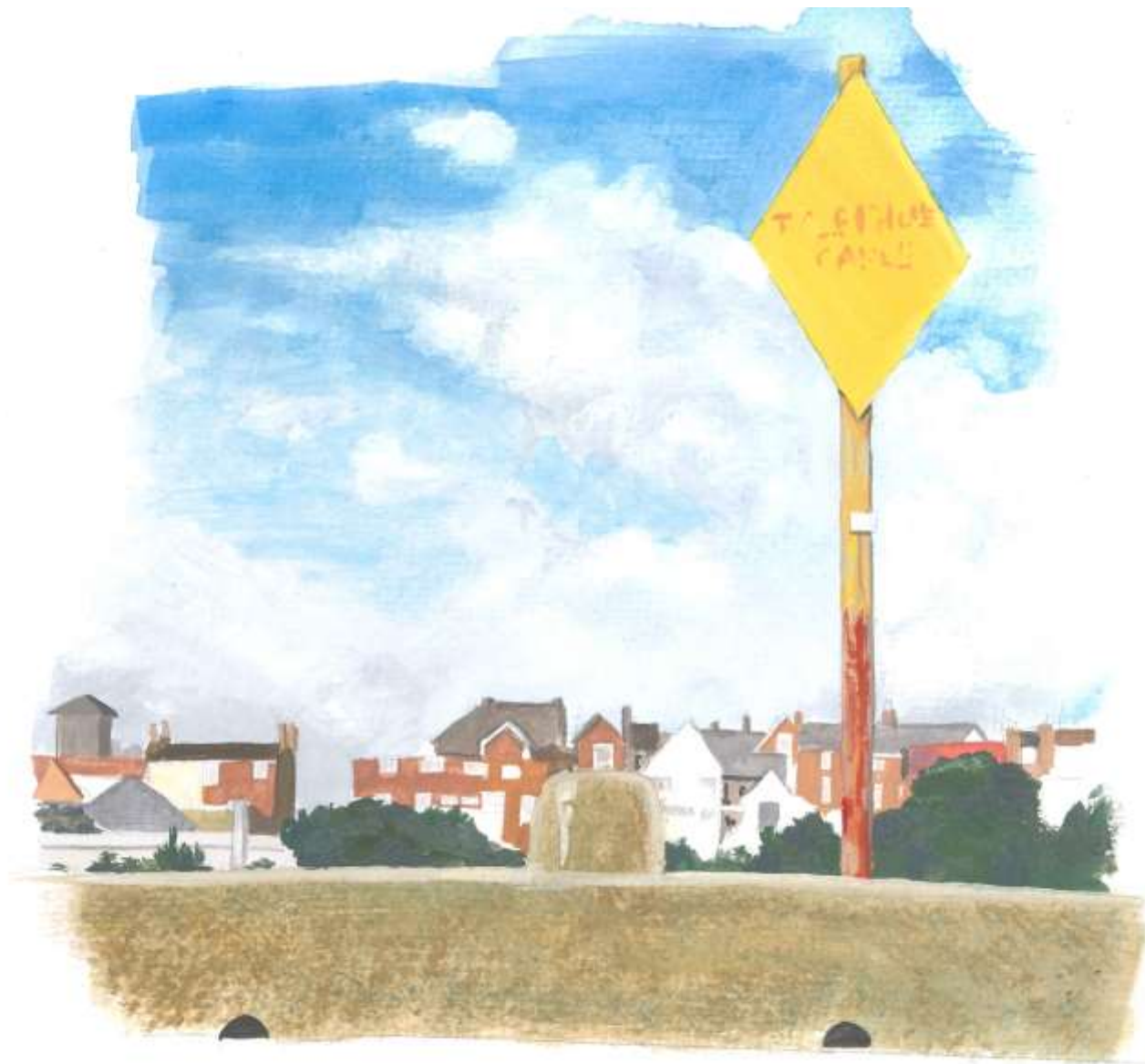


00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



And if we did not place signs to show where to look, we might never know they were there.

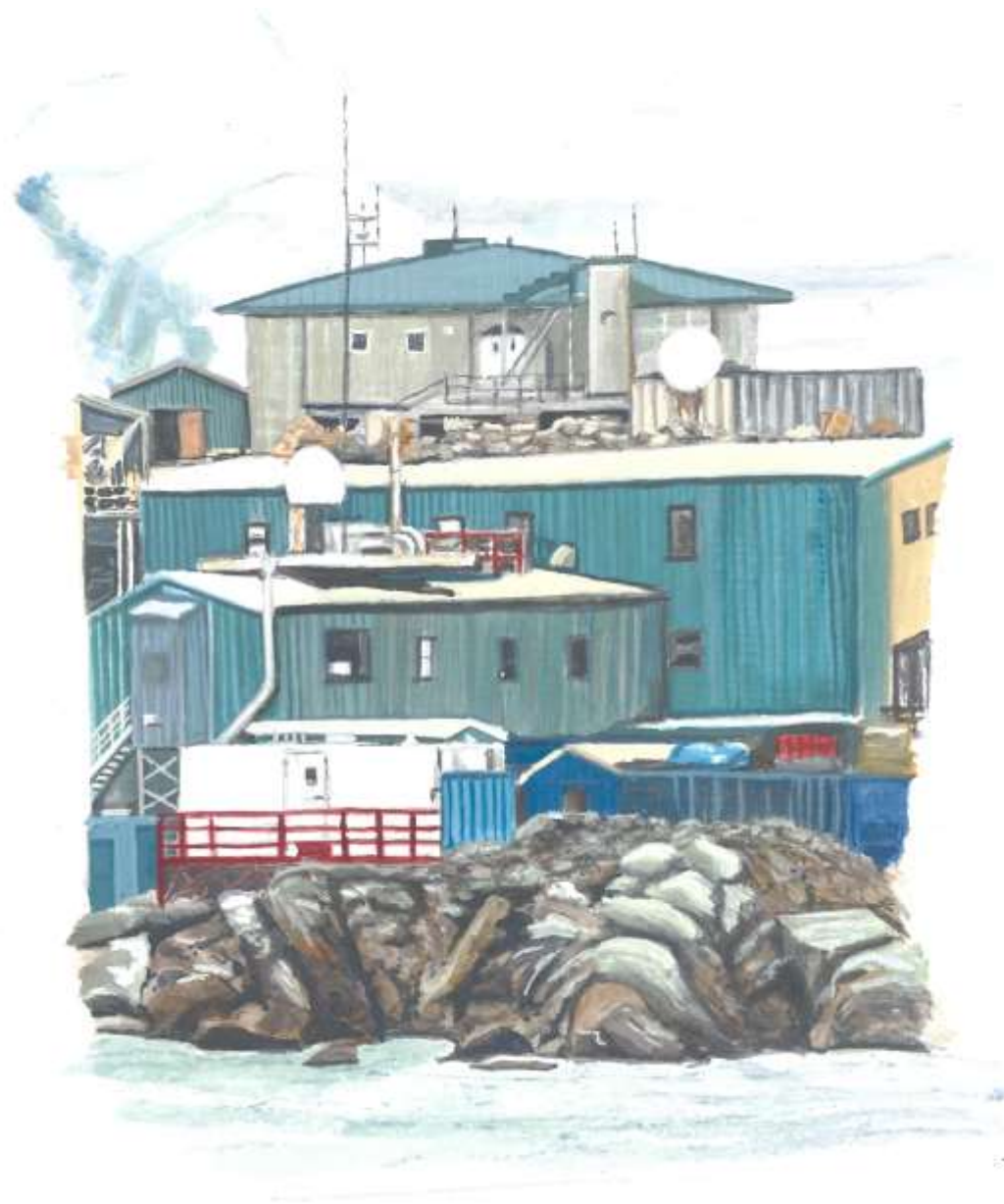
00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

So, however far away from each other we might be, the signals can reach us.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

And when they arrive, computers can turn them back into something we understand.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

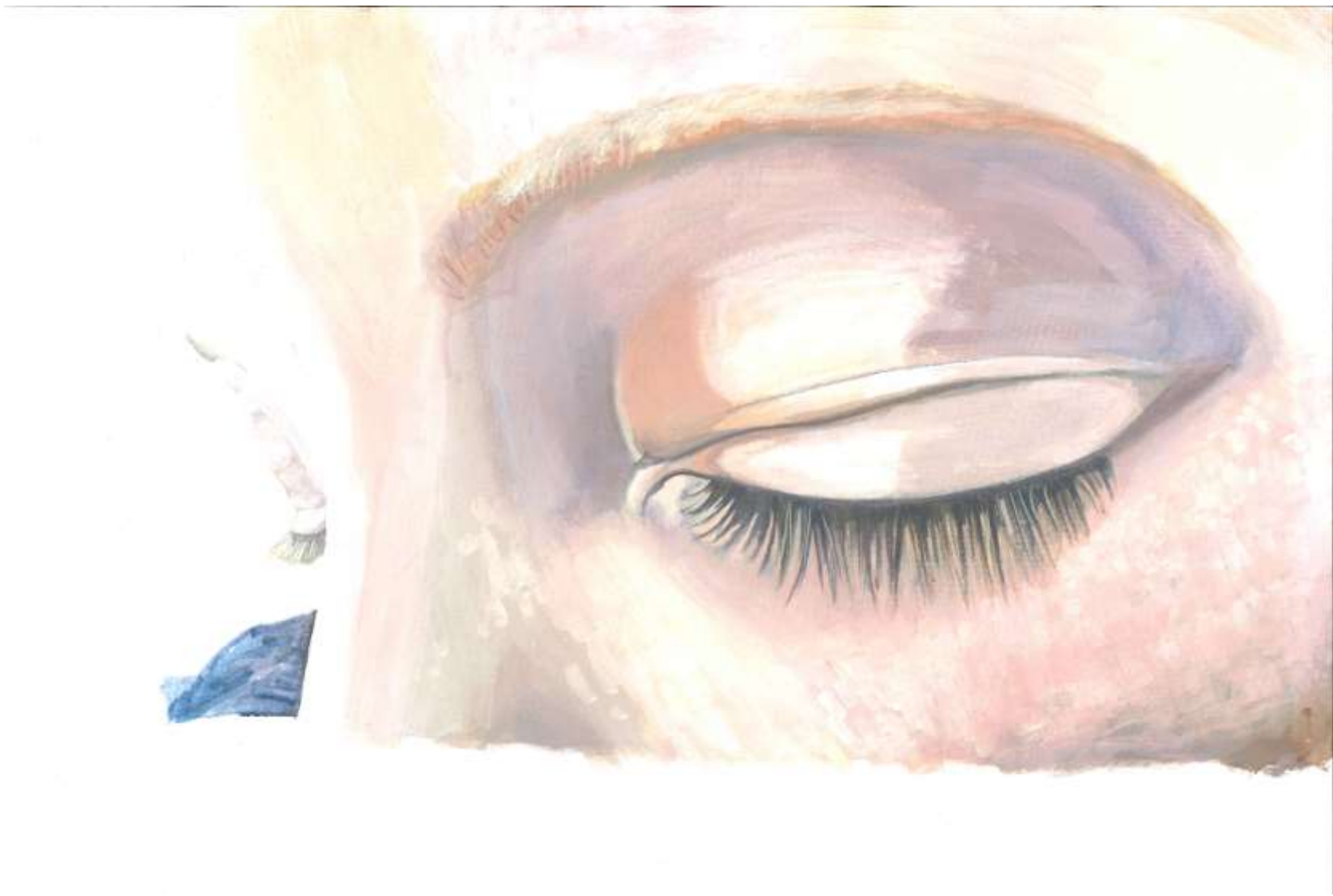


00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

All in as long as it takes you to blink your eyes.

00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0





00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0

And so all explorers can share our  
discoveries, however far apart we might be.

00110001 10010110 00001010 11000110 01010001 01001101 11001001 00010110 00010110 10100100 00010000 0



00101001 10110010 00001010 11000010 01010011 01001101 11101001 00010110 00000010 10100100 00010011 0