Graphic Novel

PHANTOM PLANET

written by Martin Powell
art and letters by Tom Floyd
scientific illustration by Angie Fox

Thanks to

Anisa Angeletti, Ph.D., Research Assistant Professor, School of Biological Sciences and Nebraska Center for Virology, University of Nebraska–Lincoln

Judy Diamond, Ph.D., Professor and Curator of Informal Science Education, University of Nebraska State Museum

Moira Rankin, President of Soundprint Media Center, Inc.

Adam Wagler, College of Journalism and Mass Communications, University of Nebraska–Lincoln

Charles Wood, Ph.D., Lewis Lehr/3M University Professor of Biological Sciences and Director, Nebraska Center for Virology, University of Nebraska–Lincoln

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A MOMENTOUS EVENT.

PLANET EARTH, IN THE DISTANT FUTURE, AS A LONG AWAITED DREAM IS FULFILLED.

AT LAST...VISITORS FROM OUTER SPACE.
It is an incident epic in its proportions, debated throughout the centuries by scientists and philosophers.

It was inevitable, most people believed, that such contact would eventually occur.

Even so, wise scholars in this world could only speculate upon the outcome of such a meeting. Would these strange visitors be our mortal enemies or our new-found friends?

That single troubling question remained unanswered...

Until now.
ATMOSPHERE REPORT.

SEVENTY-EIGHT PERCENT NITROGEN, TWENTY-ONE PERCENT OXYGEN. EXPECTED LEVELS OF ARGON, CARBON DIOXIDE, AND CHLOROFLUOROCARBONS.

IT IS BREATHABLE.

BUT POTENTIALLY DANGEROUS. WHAT WE SEEK IS NOT AIRBORNE, BUT OTHER VIRUSES MAY BE. WE SHOULD RETAIN OUR HELMETS.

PROCEED WITH EXTREME CAUTION.

THE MAGNITUDE OF OUR MISSION CANNOT BE OVERSTATED.
THE VISITORS MOVE STEALTHILY, WARILY... SUSPICIOUS OF EVERY FLUTTERING SHADOW.

SUCH UTTER SILENCE. IT'S LIKE A PHANTOM CITY. TO THINK THAT A VIRUS, A NON-LIVING ENTITY WITH ONLY NINE GENES, AS OPPOSED TO THE TWO THOUSAND GENES POSSESSED BY HUMANS, COULD PROVOKE THIS KIND OF DEVASTATION.

IT CLEVERLY ATTACKS THE IMMUNE SYSTEM, THE VERY THING THAT NORMALLY KILLS VIRUSES.

BY GRABBING ONTO RECEPTORS ON THE SURFACE OF IMMUNE CELLS, THE VIRUS FUSES WITH THE CELL MEMBRANE AND THE VIRAL CORE RELEASES ITS GENETIC MATERIAL INSIDE THE CELL.

THEN IT MANIPULATES THE CELL INTO MANUFACTURING HUNDREDS OF NEW COPIES OF HIV, WHICH ESCAPE AND INFECT NEIGHBORING CELLS.

HOPEFULLY, WE WILL DISCOVER WHAT WE CAME FOR QUICKLY AND WITHOUT CONFLICT FROM THE SURVIVORS.

THEY'VE SEEN US!

REMAIN CALM. THEY ARE AS APPREHENSIVE AS WE ARE.
A SIGNAL CORRESPONDING TO RFID FROM THE SAMPLES LOCATED TWO HUNDRED METERS IN FRONT OF US!

QUICKLY—BEFORE THE SURVIVORS REGROUP IN STRONGER NUMBERS.

UNTIL, FINALLY...

WE MAY NOT GET A SECOND CHANCE. ARE YOU CERTAIN THERE IS NO MARGIN FOR ERROR?

ONE HUNDRED PERCENT.

THE SIGNAL ORIGINATES FROM INSIDE THIS BUILDING.

ONWARD, THEN.

WE MUST NOT FAIL.

NATIONAL LABORATORY FOR INFECTIOUS DISEASE

THE VISITORS FOLLOWED A GRIM PATH, LITTERED WITH TRAGEDIES OF MANY GENERATIONS.

**RFID STANDS FOR RADIO FREQUENCY IDENTIFICATION, AN AUTOMATIC IDENTIFICATION TECHNOLOGY WHEREBY OBJECTS CAN BE IDENTIFIED IN AN RFID TAG IS CAPTURED BY A READER USING RADIO WAVES. RFID TAGS CONSIST OF AN INTEGRATED CIRCUIT ATTACHED TO AN ANTENNA AND CAN BE AS SMALL AS A GRAIN OF RICE.**

**BSL 2 REFERS TO BIOSECURITY LEVEL TWO, THE MINIMUM LEVEL OF BIOSAFETY EQUIPMENT REQUIRED TO HANDLING LOW-LEVEL BIOLOGICAL AGENTS.**

**BSL 3 REFERS TO THE BIOSECURITY LEVEL REQUIREMENTS FOR HANDLING SUBMISSION PATHOGENS.**
MOMENTS LATER, IN THE LONG-ABANDONED MEDICAL LABORATORY...

WE’VE FOUND IT!

EXTRAORDINARY! EVERYTHING APPEARS INTACT.

THIS IS THE MOMENT WE’VE BEEN WAITING FOR.

ACCORDING TO THE SCANNER, THE SAMPLES OF HIV-RESISTANT CELLS WE NEED WERE PRESERVED IN THIS LABORATORY IN CRYOGENIC SUSPENSION.

THEY MUST BE CONTAINED IN HERE.

SOMEHOW... I FEEL LIKE A THIEF.

NONSENSE. IT IS OF NO USE TO THE SURVIVORS IN THIS DYING WORLD. ONLY WE FULLY COMPREHEND ITS VALUE.

WE’VE GOT IT!

NOT AN INSTANT TOO SOON, THERE ARE NOISES AND MOVEMENT OUTSIDE...

BACK TO THE SHIP—NOW!
After a few frantic minutes, the visitors reach their destination...

We could help them...

Later... we will return.

Then, with a shimmering aura, and a crackle of ozone, the spacecraft rises silently, swiftly climbing into the stormy sky.

"Mission accomplished."
I didn't think we were going to find it.

It's not their fault.

Only a few individuals possessing a rare natural immunity to HIV have survived. These cells from resistant individuals give us the key to saving our species.

Fortunately, our ancestors were among the first to begin colonizing outer space, before the virus reached its terrible proportions here on Earth.

Although HIV has continued to plague us, too, even in our colonies in outer space.

Indeed it has, behold, what a terrible, and yet beautiful mechanism it is!

"THE HOST CELL READS THE HIV GENES AS IF THEY WERE ITS OWN AND MAKES MORE HIVS. THE NEW HIVS LEAVE THE HOST IMMUNE CELL AND GO ON TO INVADE OTHER T CELLS."

"THE HIV-RESISTANT CELLS FROM THE LAB ON EARTH WILL NOT ALLOW THE VIRUS TO GET INSIDE. THE HIV KEY CAN’T UNLOCK THE SURFACE RECEPTORS ON THESE SPECIAL CELLS."
It could take up to twenty years before the immune system fails, but the outcome is the same: humans become vulnerable to rare diseases that would never be able to harm a healthy immune system.

Now, with this sample, we have the possibility to eradicate HIV forever!

It won’t be easy. We still have no sure way of identifying the mechanism of resistance in the cells of the survivors.

Not yet, but we will.

We must make peace with Earth’s HIV survivors and work with them to discover how they have resisted the virus.

At last, the hope of humanity’s salvation is within our reach.

The beginning...