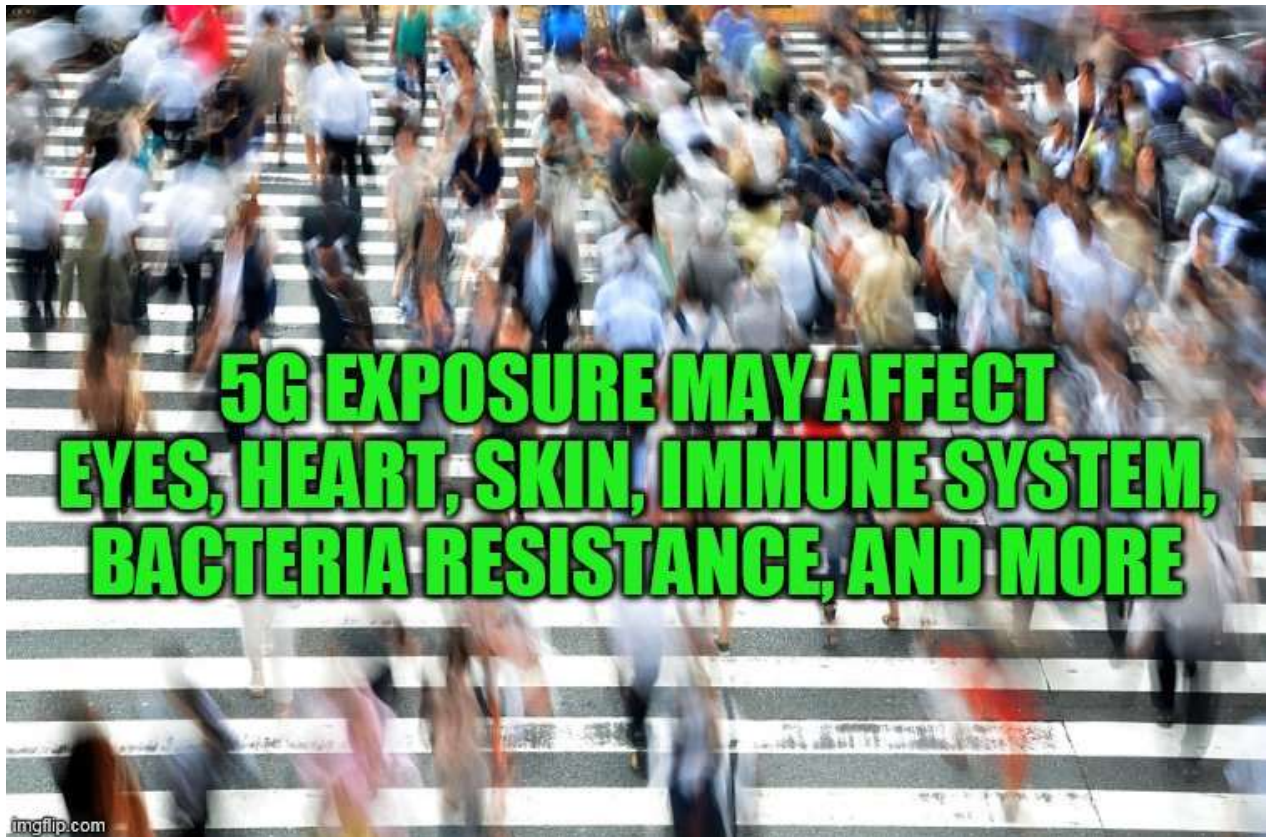


Despite Opposition and Well-Documented Risks, 5G Activated in Nearly 2,000 Cities Worldwide (Chart Included)

By B.N. Frank



Worldwide opposition to **5G** has been ongoing *for years*. This has limited, slowed and/or stopped deployment in some places but obviously not others. Since 2017 doctors and scientists have asked for moratoriums on Earth and in space (see 1, 2) and the majority of scientists oppose deployment. Since 2018 there have been reports of people and animals experiencing symptoms and illnesses after it was activated (see 1, 2, 3, 4). In 2019, telecom executives gave U.S. congressional testimony that they had NO scientific evidence that **5G** is safe. Some researchers have also claimed that **5G** activation may be contributing to COVID-19 infections while others say it's not. Nevertheless, research *has* determined that there are health risks associated with 5G exposure as well as exposure to 4G and

other sources of wireless Wi-Fi radiation (see [1](#), [2](#)) and Electromagnetic Fields (aka “[Electrosmog](#)”). Got pets? [Exposure](#) can affect them too.

Regardless, **5G** has officially been launched in various locations – maybe even your neighborhood.

From [RCR Wireless](#):

5G by the numbers: 72 countries, nearly 2,000 cities, 24 Standalone networks
By [Kelly Hill](#)

5G networks were activated at a rate of almost two cities per day during 2021, according to Viavi Solutions

5G continues its deployment momentum around the world, while the shift toward Standalone is picking up, according to [newly released figures from Viavi Solutions](#). As of March 2022, the test company said that based on publicly available information, **5G** networks have been launched in 72 countries around the world, with 1,947 cities having **5G** networks.

The countries where **5G** has been newly launched include Argentina, Bhutan, Kenya, Kazakhstan, Malaysia, Malta and Mauritius, Viavi said, noting that all of those countries’ **5G** networks launched in the second half of last year.

China and the United States are the countries with the most **5G** Cities, at 356 and 296 respectively. But on a regional basis, the Europe, Middle East and Africa (EMEA) region has surpassed the Asia Pacific region (including China) in terms of deployed **5G** networks, with 839 **5G** networks in EMEA compared to 689 **5G** networks in APAC. There are 419 **5G** networks in the Americas, by Viavi’s count.

While the vast majority of global **5G** networks have been deployed as NonStandalone (NSA), where an LTE core network is required to anchor **5G** and carry control plane traffic, there does continue to be movement toward **5G** Standalone, which requires the implementation of a **5G** core. Viavi says there are two dozen 24 **5G** SA networks deployed around the world, and noted that “It is widely considered that many of the next-generation use cases and monetization models associated with **5G**, beyond enhanced Mobile Broadband (eMBB) will only be possible when Standalone **5G** networks built on new **5G** core networks are in place.” Network slicing functionality, for instance, is only achievable in an end-to-end **5G** SA network.

Alongside the development of **5G**, Viavi is also tracking the development of the Open RAN ecosystem, where as of last month 64 operators around the world have announced their participation. Viavi says there are currently 23 live Open RAN deployments, 34 trials in progress and another seven operators who have said publicly that they are in the pre-trial phase of Open RAN work.

“5G continued to expand, despite the headwinds of a global pandemic,” said Sameh Yamany, CTO of Viavi Solutions. **“What comes next in 5G is the reinforcement of networks. This will take a couple of forms. Firstly, we expect to see more Standalone 5G networks, which will deliver on much of the promise of 5G, both for the operator and for the wider ecosystem of users. And secondly, we expect to see Open RAN continue its rapid development and start to become a de facto standard. VIAVI will continue to play a central role in [testing](#) those new networks as they are built and expanded.”**

Viavi’s infographic can be viewed below and is available [here \(pdf\)](#). For more insights from Yamany about the development of 5G networks and related trends, check out [this piece](#) and Yamany’s session from Test and Measurement Forum, [available for viewing on YouTube](#).

I recently had the opportunity to see the widespread visibility of AT&T 5G cell towers in the Louisville, KY area. My wife was driving and I was watching the GPS for instructions that brought us the VA Geriatric Clinic for a follow-up from a recent two week hospitalization for pneumonia and heart/lung issues. At one intersection south of the city I could count six 5G cell towers. They were probably 200-ft in height. This was my first chance to see first-hand for myself.

Although the CDC has dropped cruise ship operators from sailing, that does not mean they have been Covid-free. In fact, there have been many outbreaks reported on cruise ships around the world.

COVID-19 Outbreak Aboard Carnival Spirit – Carnival Cruise Line Refuses to Disclose Number of Infected Guests and Crew



A number of newspapers were reporting today, May 4th, 2022 that the *Carnival Spirit* cruise ship experienced a COVID-19 outbreak. As usual, Carnival Cruise Line refused to respond to requests regarding the number of infected passengers and crew members. Cruise guests on the Carnival cruise ship estimated the outbreak to involve “more than 100 people” and as many as 200.

In an article titled: “Carnival Cruise passengers say ship was overwhelmed with COVID-



19 positive patients – Passengers say the response from the crew was chaotic,” [King 5 News](#) in Seattle reported: *“They didn’t have enough staff to handle the emergency that was happening, period,”* according to a ship passenger who was infected with the virus. *“They were overwhelmed and they didn’t have a backup course in how to handle about 200 people affected with COVID. We all suffered.”*

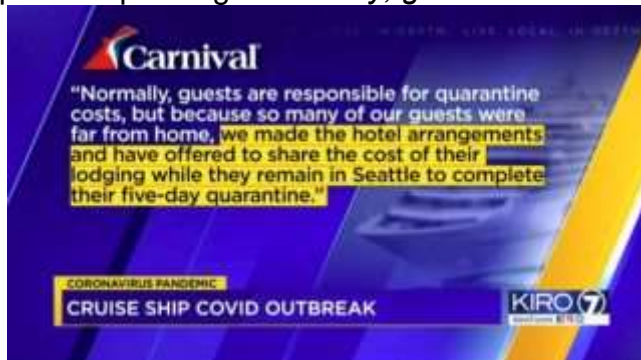
Passengers say they *“waited hours for meals, weren’t properly isolated and couldn’t get ahold of medical staff.”*

“We couldn’t call anybody . . . Basically, we sat in the room, you call and it would ring, ring, ring and ring all day long.”

[US News](#) reported that *“Multiple people say they’re in quarantine at Seattle-area hotels after testing positive or being exposed to someone with COVID-19. Carnival Cruise Line would not confirm how many people tested positive . . . ”*

Carnival suggested that cruise guests obtain travel insurance to defray hotel and any medical expenses related to their quarantines. Carnival released a statement to the

press explaining: “Normally, guests are



responsible for quarantine costs, but because so many of our guests were far from home, we made the hotel arrangements and have offered to share the cost of their lodging while they remain in Seattle to complete their five-day quarantine.” Carnival did not disclose how much of their customers’ costs it “offered to share.”

Carnival downplayed the outbreak, claiming that “there were no serious health issues” among the passengers. The reports did not address how many crew members were infected. Carnival would also not state how many passengers were on the ship at the time of the outbreak.

The Carnival ship left Seattle yesterday, heading to Tracy Arm Fjord, Alaska. The ship will thereafter continue on to Skagway, Juneau and Ketchikan in Alaska before sailing to Victoria and returning to Seattle on May 10, 2022.

Another Carnival Corporation owned cruise line, Princess Cruises, recently had COVID-19 outbreaks on at least five cruise ships in its fleet of cruise ships, including the *Ruby Princes Grand Princess, Caribbean Princess, Sky Princess and Enchanted Princess*.

The *Ruby Princess* alone had at least 253 infected guests on the ship over the course of the last five sailings, according to the [Washington Post](#).

Neither Carnival Corporation nor Princess Cruises disclosed the number of infected guests and crew members on these cruises.

Last week, a number of cruise executives, including retiring Carnival Corporation CEO Arnold Donald, [stated at the annual Seatrade Cruise convention that they had allegedly “defeated COVID-19.”](#)

That’s no consolation to the hundreds of people infected on Carnival and Princess cruise ships who had to undergo quarantine during their recent sailings.

Expect the outbreak to continue as the Carnival ship cruises through Alaska and to Canada and back.

Update from the Seattle Times this afternoon in article titled – [Seattle Cruise Industry Marks Comeback from COVID with COVID Outbreak On Ship:](#)

- The outbreak aboard the *Spirit* comes a day after officials with Carnival and the



Port of Seattle held a ribbon-cutting ceremony celebrating the opening of the cruise season after two years of reduced sailings due to COVID.

- According to the CDC, the Carnival Spirit meets the threshold for a CDC investigation, which means 0.3% or more of the ship's approximately 3,054 passengers and crew tested positive for COVID.
- Of the 92 cruise ships operating in U.S. waters, 76 have reported at least one COVID case among passengers or crew members, according to the CDC's cruises dashboard. Carnival has 22 cruises operating; all but four have positive cases.

Comments from blog and Facebook:

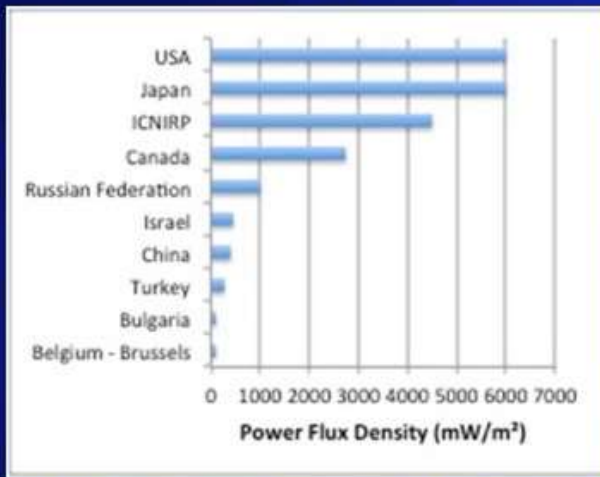
"So, the ship just keeps sailing!!! They dump people off and continue on their way? Yikes, and they are withholding info that passengers need to make conscious decisions. Very bad business. What has happened to all the disinfecting, cleaning, air quality....? It seems that Carnival Corporation, Royal and NCL really don't care! Passengers beware! There are other cruise lines out there with great transparency and care for their clientele!"

"Covid is still here. I am just sad for the staff." People still are oblivious the fact it is not a virus pathogen, it is Wireless Energy which mimics a virus!

"And to think that Christine Duffy was in Seattle on Monday (to celebrate the Carnival Splendor's return to service), telling the media how great their Covid protocols are, and how safe it is to cruise now. (Interview can be found on KOMO FB page.)"

In this video, popular cruise vlogger and travel agent Don said that Carnival refused to even test the cabin mates of the infected, saying it was not necessary. <https://youtu.be/AzrFkRK8YIM>

US Has Among Highest Allowable Exposure Limits World Wide



- Several countries India, Switzerland, Italy, China, Russia, Israel, and several European countries- have limits far lower than the US, Australia and ICNIRP.
- Industry White papers state these more protective limits will prohibit full 5G 4G deployment.

Fig. 3. International RFR power flux density exposure limits at 900 MHz Clegg et al., 2019



Cruise Executives Declare Victory Over COVID-19 At Annual Seatrade Cruise Convention As Hundreds of Passengers Continue to be Infected With COVID-19 on Cruise Ships Operated by Princess Cruises, Royal Caribbean and NCL



This year's annual Seatrade Cruise Global exposition in Miami Beach is ending today. This week, attendees listened to the cruise trade show's keynote presentation titled *"The State of the Global Cruise Industry."* The panelists who addressed the theme of the presentation – *"Resilience and the Restart"* – included Cruise Lines International Association (CLIA) President and CEO, Kelly Craighead, Carnival Corporation's CEO, Arnold Donald, Royal Caribbean's President & CEO, Jason Liberty, and Executive Chairman of the cruise division of MSC Group, Pierfrancesco Vago.

The cruise line executives spoke about the industry's so-called "resiliency" to the COVID-19 pandemic which essentially shut the cruise industry down for the better part of the last two years. The executives went as far as to suggest that the COVID-19 pandemic, which is still infecting, sickening and sometimes killing cruise guests, was a thing of the past. The *'Miami Herald'* covered the Seatrade convention and wrote *"Cruise industry leaders claimed victory over the coronavirus pandemic, praising the industry's resilience the past two years ... While industry leaders were optimistic about the future of cruising, there was little sentiment of responsibility or remorse."*

The executives' indifference and self-praise are rather shocking given the fact that the [Miami Herald](#) documented that there have been at least **111 guests and crew members** who were infected with COVID-19 during cruises in 2020 and 2021 and later died.

The reality is that many hundreds of passengers and crew members are still becoming infected on cruise ships on a regular basis. Princess Cruises, in particular, just recently experienced COVID-19 outbreaks on at least five cruise ships. The Orange County Register explained the CDC's conclusions that the recent COVID-19 outbreaks on Princess cruise ships were likely caused by "a rapidly spreading variant and close, indoor quarters" in an article titled: [Cruise Industry Weathers COVID-19 Holdovers As Virus Lingers](#).

In the past month alone, Princess Cruises' *Ruby Princess* was one of five Carnival Corporation-owned cruise ships which experienced large COVID-19 outbreaks and made a mockery of the cruise executives' alleged "victory" over the virus. *"It was quite clear that there were a large percentage of passengers that were sick, but unless you self-reported, you were free to keep going and infect other passengers,"* California resident Ted Vomacka told the *'Mercury News'*. *"It was obvious from observing all the coughing and hacking that some form of infection was going around."* Like all other cruise brands owned by Carnival Corporation, Princess Cruises refuses to release the number of guests and crew members infected with the virus. But the San Francisco Department of Public Health reported that 143 passengers on the *Ruby Princess'* (San Francisco to Hawaii round trip which ended on April 11th) tested positive; this was nearly twice as many as the 73 cruise guests reported sick after the ship returned from Panama. In all, the *Ruby Princess* had at least **253 infected guests** on the ship over the course of the last five sailings, according to the [Washington Post](#).

This month, Princess Cruises' *Grand Princess* also experienced a significant outbreak while returning to Los Angeles from Hawaii.

The *Caribbean Princess*, *Sky Princess* and *Enchanted Princess* also experienced large scale COVID-19 outbreaks. Each of these ships have designated COVID-19 decks where infected passengers (as well as crew members) who tested positive are isolated during the cruise.

Unfortunately, Princess does not disclose the number of infected guests to the press or even warn boarding passengers that there has been a COVID outbreak on the prior cruise.

A guest informed the *Times Colonist* that Princess Cruises “has been very tight-lipped.” “People have been at the guest services desk demanding to know how many sick people [there are] and they won’t tell you anything,” she said. “They just say ‘oh, a certain bartender or waitress you have seen all week [is] feeling under the weather’ when you see that they are gone. The captain has not made any announcements.”

“They say they are going to dry dock early, but we all know it is COVID. They have not said this but we on the ship all believe this.”

News breaking during the week long Seatrade convention also included accounts of at least one cruise passenger contracting COVID-19 on a cruise ship and dying as well as accounts of cruise passengers being abandoned in foreign ports after becoming infected at sea.

As the *‘Miami Herald’* reported, “top cruise industry leaders at the Seatrade cruise conference claimed victory over the coronavirus pandemic.” Pierfrancesco Vago, CLIA chairman, went as far as to claim that the cruise industry was leaving “the health emergency behind.” But the over-hyped rhetoric of the cruise executives is overshadowed by the reality of many hundreds of vacationers who were recently infected on just five of the Princess fleet of cruise ships, one guest dying after contracting COVID-19 during a cruise this week, and some of the cruise lines abandoning their infected guests in Europe.

As the *‘Miami Herald’* further pointed out, “there was little sentiment from the industry leaders ... of responsibility or remorse for numerous superspreader virus outbreaks on cruise ships during the pandemic ...”

The fact that cruise executives claim victory over COVID-19, as if they somehow were personally involved in finding a cure for the disease, is perhaps no more outrageous than having no feelings of responsibility or remorse for the many thousands of guests and crew members who were sickened and over 100 people who died after being infected on their cruise ships in 2020 and 2021.

The cruise industry stonewalling the media and the paying customer clientele can only be viewed as apathetic indifference and will not go well as the public learns further about the less than cordial response to the media's inquiries that go unanswered. They will never repent and acknowledge the real issue is not a virus but the result of their recently 2019 and 2020 installed **5G** Wireless transceivers which are dangerous to the largely older cruise passengers. It is the elderly that are most likely to suffer sickness and death.

No one in the industry wants to admit that millimeter waves of **5G** and **6G** require greater amounts of energy to maintain satellite signal strength needed at sea and are harmful to life form at 20+GHz and higher. This becomes even more dangerous with the elderly who have existing health conditions making them more vulnerable to the wireless energy EMF. It is indisputable that the age of those dying on cruise ships are almost always those older than 60 years of age. When you investigate deaths younger than 60 years of age, it is likely they had pre-existing debilitating health issues. This has been the case even for U.S. Navy members who have died and blamed on Covid-19. The last time I saw a U.S. Navy report, close to twenty had died from the alleged Covid but all worked in fields with electronics and communications where they were regularly in close proximity to radar, electronics, weapons, and communications equipment. They also were older sailors largely in their 40s, which could be associated with onset of physical health issues.

Never forget the fact that the original Coronavirus crisis began with the cruise ship *Diamond Princess* in January and February, 2020, with 705 passengers and crew sickened during their time at sea, and 14 died as well.

Blessings,

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