



# **Vigoride-1 Spacecraft**

## **NGSO Antenna Gain Plots**

v2

08/08/2020

Momentum Inc.  
3050 Kenneth Street  
Santa Clara, CA 95054  
+1 (650) 564-7820

## Revision History

Revision Number	Updates	Page #	Author	Date
1	Initial Release	All	Sam Avery	08/07/20
2	Updated contour labels	All	Sam Avery	08/08/20

## Table of Contents

I.	Introduction	3
II.	Downlink Gain Contour Plots	4
III.	Uplink Gain Contour Plots	6

## I. Introduction

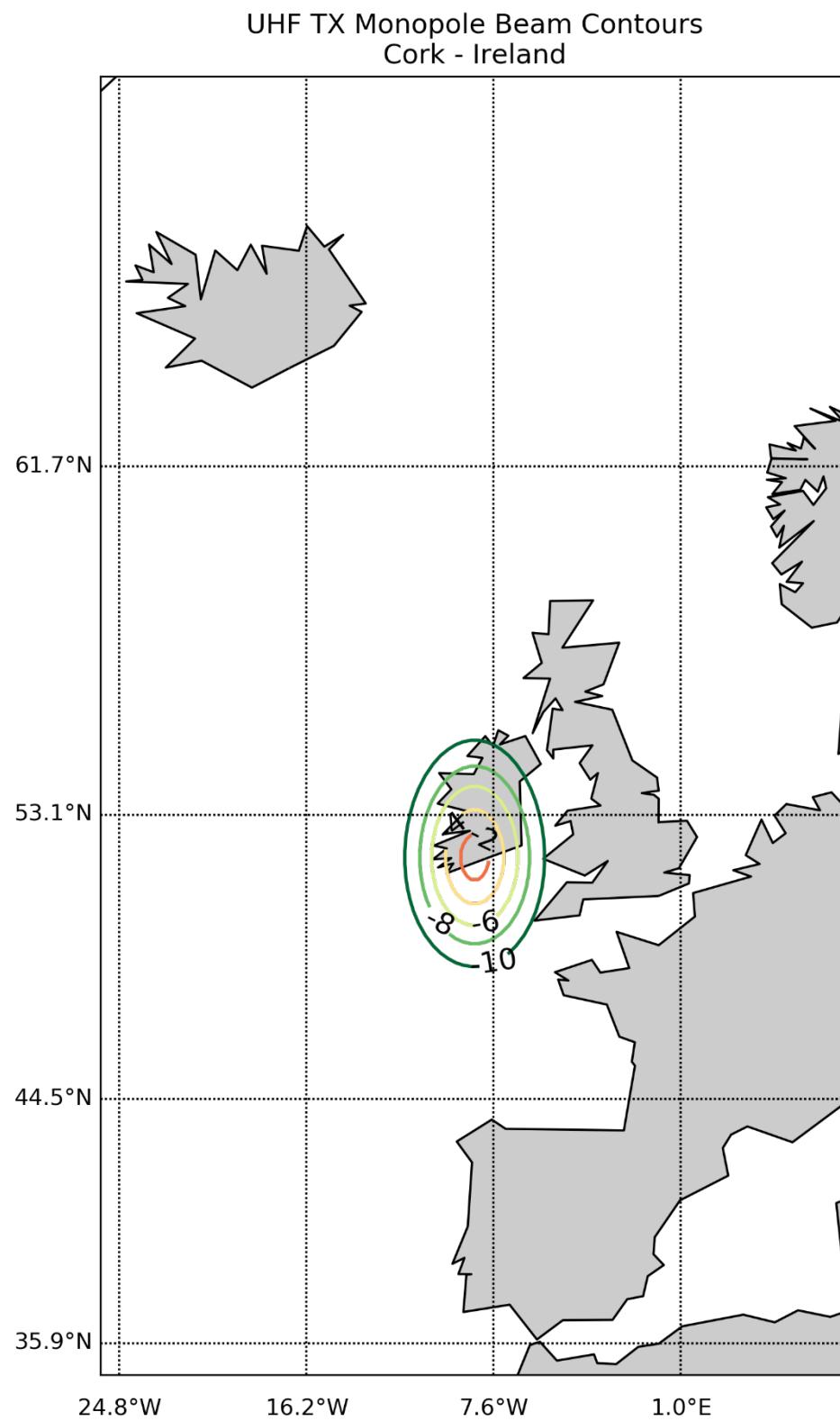
All contour plots show a map of the Earth out to the horizon for each ground station and satellite antenna pair. The plot labels indicate antenna gain contours in 2 dB steps down to 10 dB below the peak gain. For instance, a contour label of “-2” indicates 2 dB below the maximum gain for that antenna.

Note that for the Uplink (S-band receive) gain contour plots, the point of 10 dB below peak gain is beyond the horizon and is not shown in the plots.



**MOMENTUS**

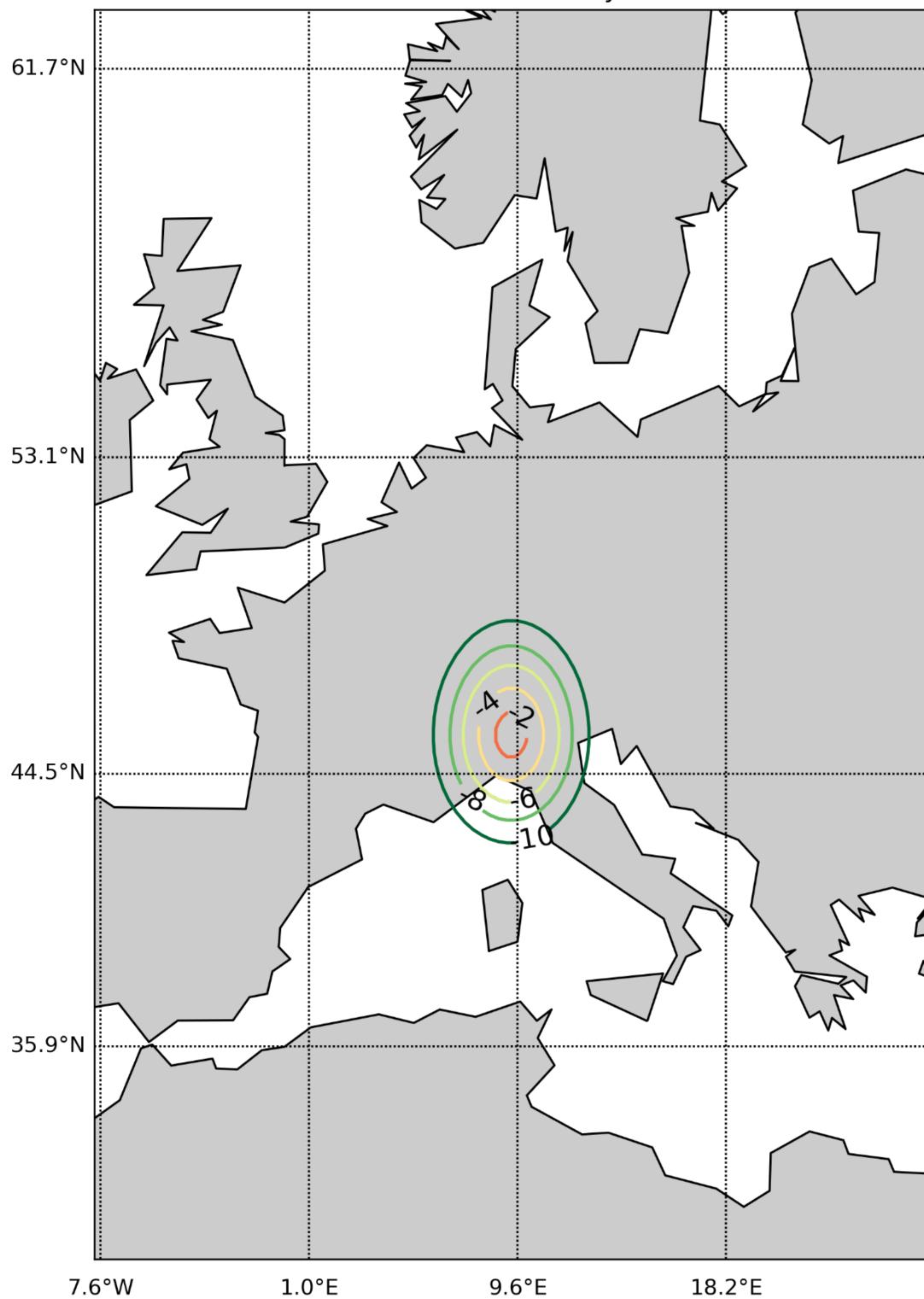
## II. Downlink Gain Contour Plots





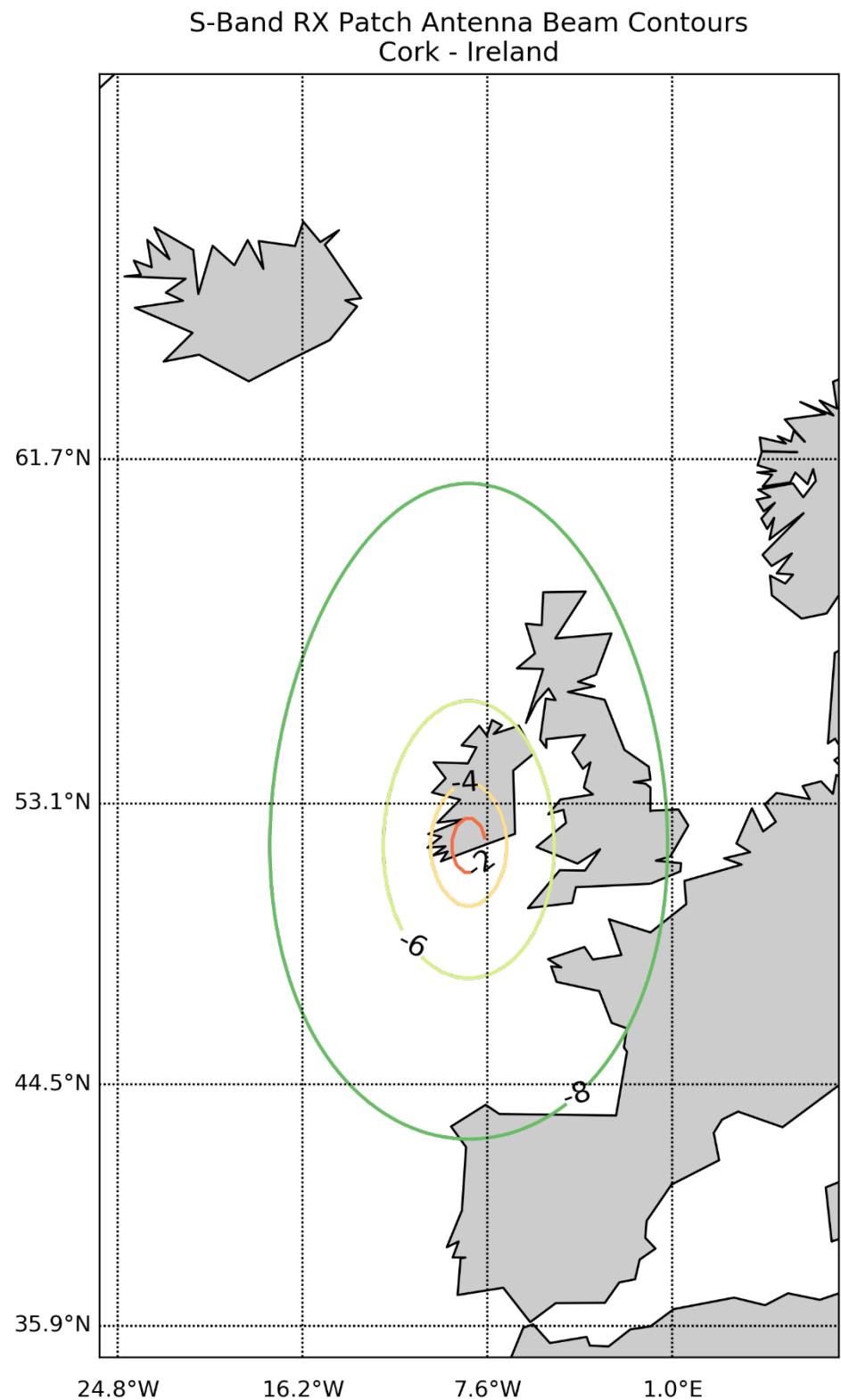
**MOMENTUS**

UHF TX Monopole Beam Contours  
Vimercate - Italy





### III. Uplink Gain Contour Plots





**MOMENTUS**

S-Band RX Patch Antenna Beam Contours  
Vimercate - Italy

