



Oblique Aerial Photography using OGC WMS Standard

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Oblique imagery by Pictometry is available for most larger cities in Germany

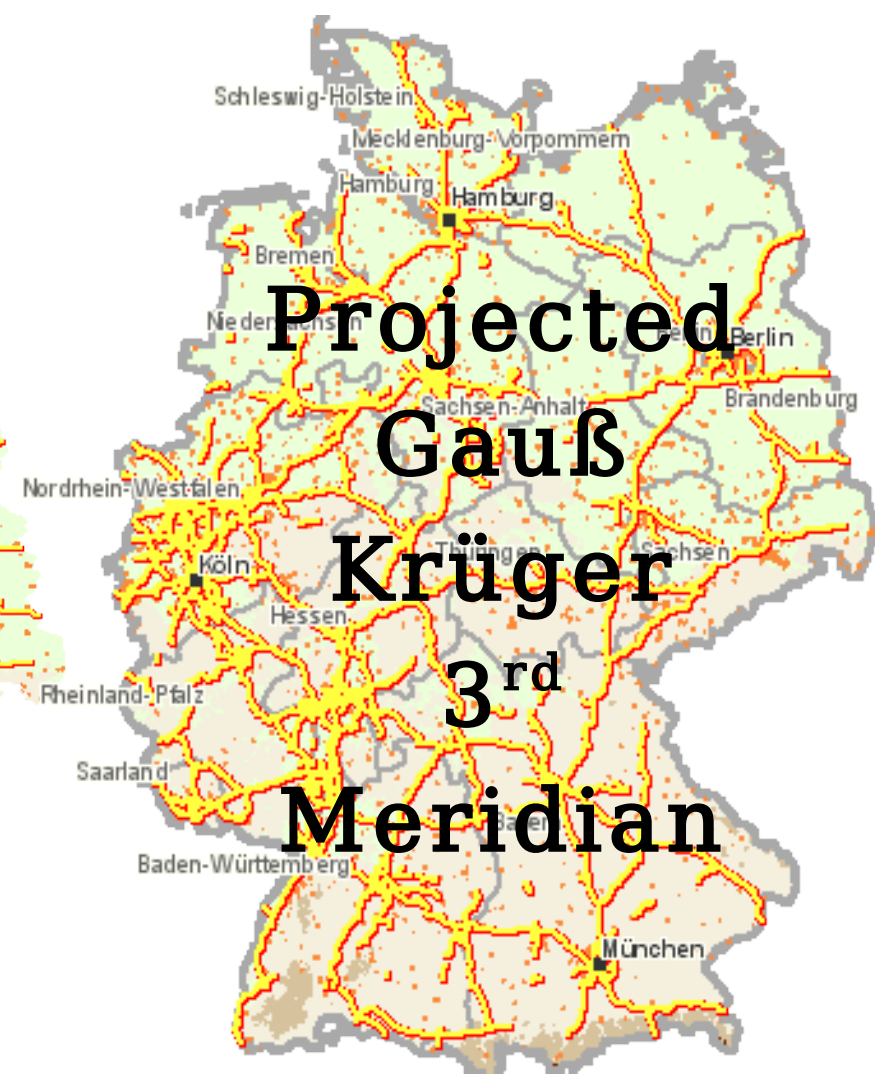
Many cities in Germany have adopted OGC standards to build spatial data infrastructures. OGC WMS is used for the presentation of maps including aerial photography. Corresponding client technology has been installed and is used by a large user base.



Unfortunately the oblique imagery does not fit into the existing OGC WMS standard.

But we can make it work.

Due to the relative position of Germany around 5.000 km north of the equator map images in the coordinate reference system WGS84 appear as if taken at an oblique angle anyway. Germany is fat.

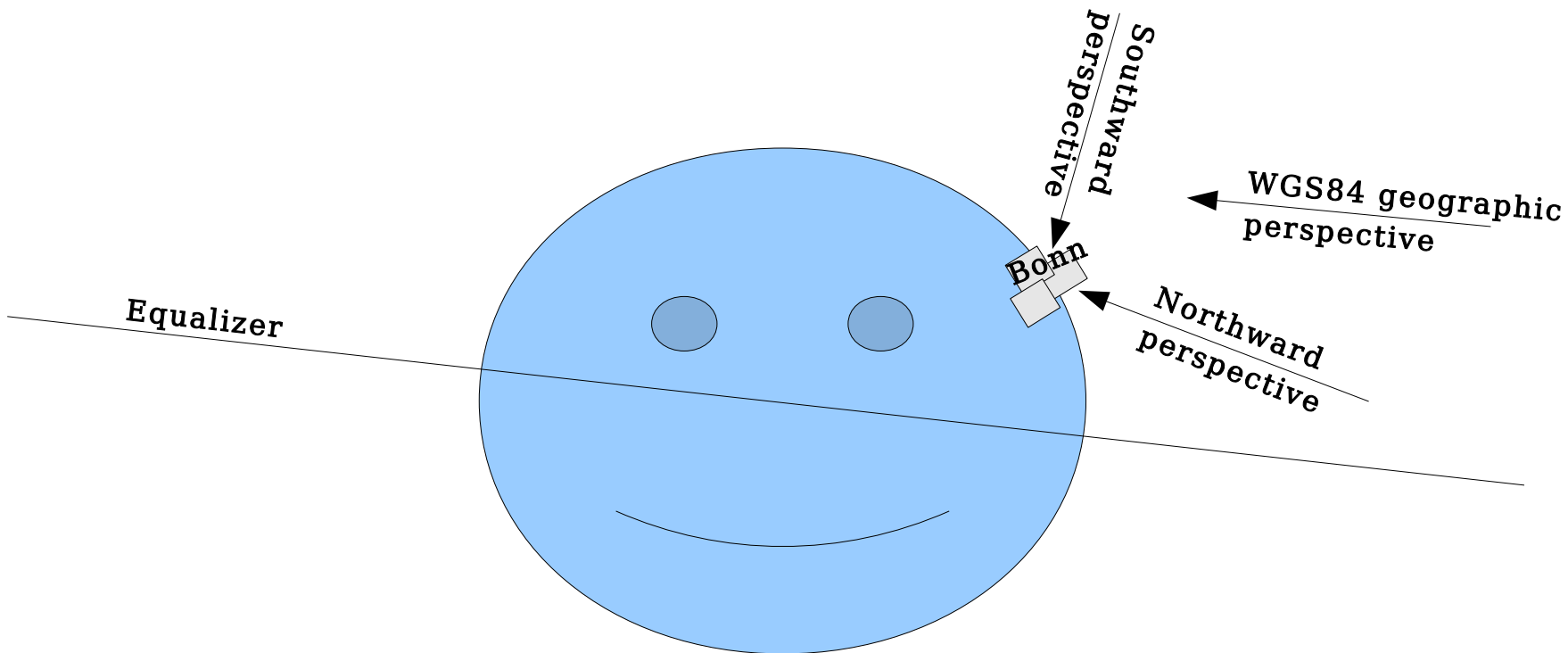


Augsburg Imagery by BLOM

Images
from the
southern
perspective
look
naturally
good.



WGS 84 and Northward viewing perspectives by chance almost coincide





But the view from the west is heavily distorted.





**... as also
the view
from the
east.**





**The view
from the
Norht is
a bit
sickening
if added to
a WMS...**






**With just a little creativity
there is an easy solution to
work around.**

**It only requires to rotate the images
returned from an OGC WMS request
by 90, 180 and 270 degree and to
stretch the East and West view to
match the distortion that we get from
WGS84 by default anyway.**



**View from
the west:
rotated
and
stretched**





This can be done by only making the client slightly tweak the request and rotate the returned map.



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