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## Loxodrome Rhumb Line Orthodrome Great

**a novel approach to loxodrome (rhumb line), orthodrome ...** - a novel approach to loxodrome (rhumb line), orthodrome (great circle) and geodesic line in ecdis and navigation in general . a. weinrit & p. kopacz . gdynia maritime university, gdynia, poland ... **orthodrome-loxodrome correlation by the middle latitude rule** - since the orthodrome is a curved line whose true direction changes continually (except for a meridian or the equator), a number of points along the great circle are selected, connected by loxodromes and followed by rhumb line courses. **4 the rhumb line and general the great circle in ...** - the rhumb line and the great circle in navigation 4-5 general navigation consequences of these facts will be discussed in the chapter on charts. earth convergence • is the difference in direction between two meridians • increases with an increase in latitude • increases with an increase in longitude • is zero at the equator and is equal to dlong at the poles • may be calculated at ... **loxodrome (rhumb line), orthodrome (great circle), great ...** - computational algorithms implemented in marine a novel approach to loxodrome (rhumb line), orthodrome (great circle) weinrit, a., kopacz, p.: geodesic based computational algorithms implemented in marine **approximation models of orthodromic navigation** - of both curves the shorter path of the orthodrome - and the rhumb line conformity. orthodrome navigation is, as mentioned, inconvenient. therefore, only approximation of orthodrome navigation can be taken into account, reducing the number of course changes to an acceptable number - always bearing in mind that if the number of course alteration is greater, the navigation is closer to ... **a note on mid rules optimization of distance on the sphere** - orthodrome-loxodrome intersection optimized distance abstract in this article mid-latitude and mid-longitude rules are used to find the free turning point along the great circle ensuing optimized distance. namely, to reach great circle vertex with two rhumb line legs ensuing optimized distance, an initial rhumb line course equal to the orthodromic course at mid-latitude may be used. the ... **map projections and visualization of navigational paths in ...** - 3rd international conference on cartography and gis 15-20 june, 2010, nesebar, bulgaria map projections and visualization of navigational paths in electronic chart systems **route message system requirements, f1cx document no** - 3 the sole responsibility of this publication lies with the author. the european union is not responsible for any use that may be made of the information contained therein. **the journal of navigation, firstview articles orthodrome ...** - the journal of navigation, firstview articles orthodrome-loxodrome correlation by the middle latitude rule miljenko petrović the journal of navigation, firstview articles, pp 1-5 **long and short-range air navigation on spherical earth** - of gc (orthodrome geodesic) and rhumb-line (loxodrome) navigation. for short for short distances over certain terrestrial regions we also provide some simplified **paths between points on earth: great circles, geodesics ...** - officially the line of constant azimuth is called a loxodrome, but here we will just call it a rhumb line. the rhumb line is a straight line on a mercator projection. therefore the equations of that projection can be used to solve for the azimuth needed . the equations for the sphere follow. for an ellipsoidal earth they are much more complex. however the azimuth can be for a spherical earth ... **comparative analysis of mercator and u.t.m. map ...** - rjas - in perpendicular lines, the loxodrome will be a straight line. the same line makes with each projection of the meridians the same azimuth. the utm system that uses the mercator projection can be used all over the world having the advantage that it reduces the errors of representation in plan due to introducing a scale factor that makes that the linear distortions from the margin of the spindle ... **aeronautical charts/ preparation/ en-route navigation ...** - aeronautical charts/ preparation/ en-route navigation/ basic radio navigation balazs farkas. tion introduction basics earth as reference system horizontal navigation velocities / velocity triangle asi compass magnetic compass di vertical navigation altimeter time navigation the earth as reference 2. aeronautical charts flight planning en route navigation introduction to radio navigation ...

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