ABSTRACT SUBMISSION–– SOUMISSION DE RESUME

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ABSTRACT / RESUME:

**Title : Beidou Navigation Satellite System(BDS)—A New Choice for NAVAID Applications**

**Abstract: BDS, which provides services for the maritime community, was recognized as a component of World-Wide Radionavigation System on MSC 94 in 2014. BDS service covers the Asian-Pacific area at present, and will extend to global coverage around 2020 according to the official plan. BDS is capable of mobile satellite communication in addition to its highly reliable satellite radionavigation function. This paper generally describes the maritime applications of BDS in Asia-Pacific area, especially the sea areas around China, based on the communication and radionavigation integrated feature of BDS. The maritime applications include, but are not limited to, sailing and docking navigation, distress search and rescue, ship-to-shore communication, navigation marker telemetering, sea condition monitoring etc. This paper also demonstrates BDS’ prospect in NAVAID and maritime applications.**

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**题目：北斗卫星导航系统（BDS）—航海助航应用的新选择**

**摘要：北斗卫星导航系统（BDS）在2014年IMO的MSC94会议认可成为全球无线电导航系统（WWRNS）的组成部分，面向海事应用提供服务。BDS目前为覆盖亚太广大地区的区域系统，按官方公布计划，将于2020年左右建成覆盖全球的星座。BDS功能具有特色，即除了提供卫星无线电导航服务以外还具备有提供卫星移动通信服务能力。本文结合BDS通信导航一体的系统功能特点，总结了该系统在亚太区域特别是中国周边海域海事应用模式和应用情况，这些应用包括：船舶航行和靠港导航、遇险救援、船岸通信、航标遥测、海况监测等，最后，展望了BDS系统在航海助航领域可能应用和发展前景。**

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