

Appendix 1. CAMS Landings and Discards Terms of Reference

1. Comment on the ability of CAMS to provide a single source of commercial fishery data for users in both GARFO and NEFSC (e.g., for quota monitoring, stock assessment, socio-economic analysis, ecosystem assessment, protected species bycatch assessment, and research). Consider the following aspects in your review:
 - a. Documentation at both the conceptual and technical levels
 - b. Data source contributions, including the smaller and harder to track data sources (e.g., state of Maine herring data)
 - c. Processes to combine data sources
 - d. Comparisons of CAMS outputs with landings and discards provided from previous quota monitoring and stock assessment approaches
 - e. Methods for imputing effort, area, and gear when such data are missing
 - f. Approaches to handle conflicts across data sources (e.g., area 514 reported on vessel trip report (VTR) but observer on the trip reports areas 514, 521, and 525)
 - g. Utility of CAMS outputs for operational use, particularly for the primary uses – quota monitoring and stock assessment
2. Recommend future enhancements for CAMS noting whether each is an immediate need or a longer-term project. Consider the following aspects in your review:
 - a. Change management and version control
 - b. Test environment
 - c. Inclusion of a Universal Trip Identifier once it has been developed and implemented
 - d. New sources of data
 - e. User tables or interfaces
 - f. Data dictionary and entity relationship diagrams
 - g. Feedback to data providers to improve overall accuracy and utility of data
 - h. Enhancements for reproducibility of results and/or enhanced utility in assessments, quota monitoring, and research