Environmental Science Services Administration - Institute for Telecommunication Sciences and Aeronomy

1st general release of computer prediction program ITSA-1
[Lucas and Haydon, 1966]

Naval Research Laboratories
over-the-horizon radar
Prediction computer programs RADAR-A, RADAR-B, RADAR-C early 1970's

2nd Generation Ionospheric Telecommunications prediction programs ITS-78
[Barghausen, et al., 1969]
HFMUFES-4
[Haydon, et al., 1976]

National Telecommunications and Information Administration
Institute for Telecommunication Sciences (ITS)
IONCAP
3rd generation Ionospheric Telecommunications Prediction Program
[Lloyd, et al., 1978]

Released to public in 1985 by NTIS

Daily Prediction Methods with improved High Latitude propagation models (NSA and USAF support)
ICEPAC
1996
[Stewart, undated]

VOICE OF AMERICA
Selects IONCAP for Modernization Program - 1985
Improves and develops Area Coverage Model as VOACAP
(development by NRL, ITS and VOA staff)
released to the public 1993
Rockwell Collins user’s guide
[Lane, 2001]

VOACAP, ICEPAC and ITU-R Rec. 533 are available from ITS
http://elbert.its.bldrdoc.gov/hf.html

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