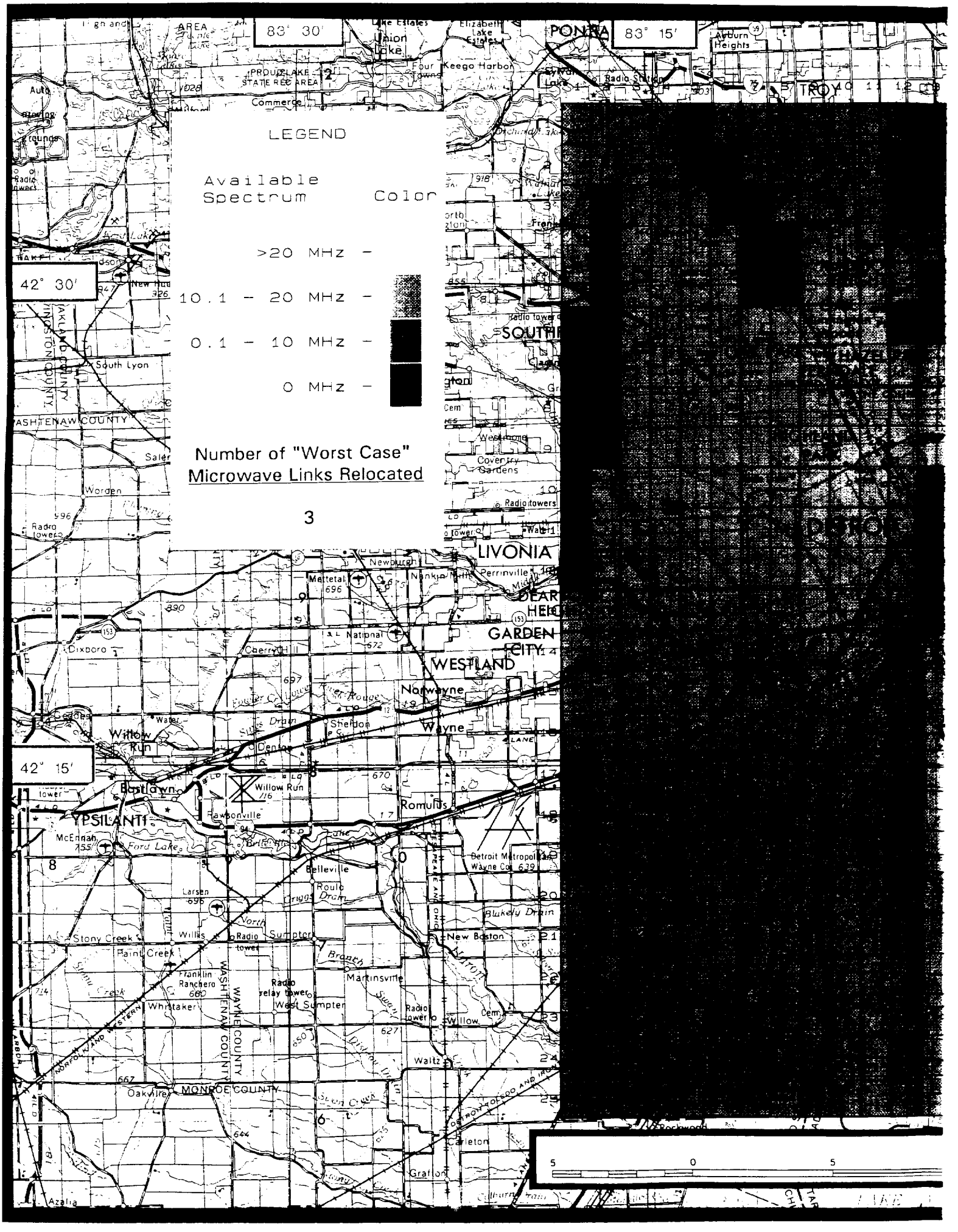
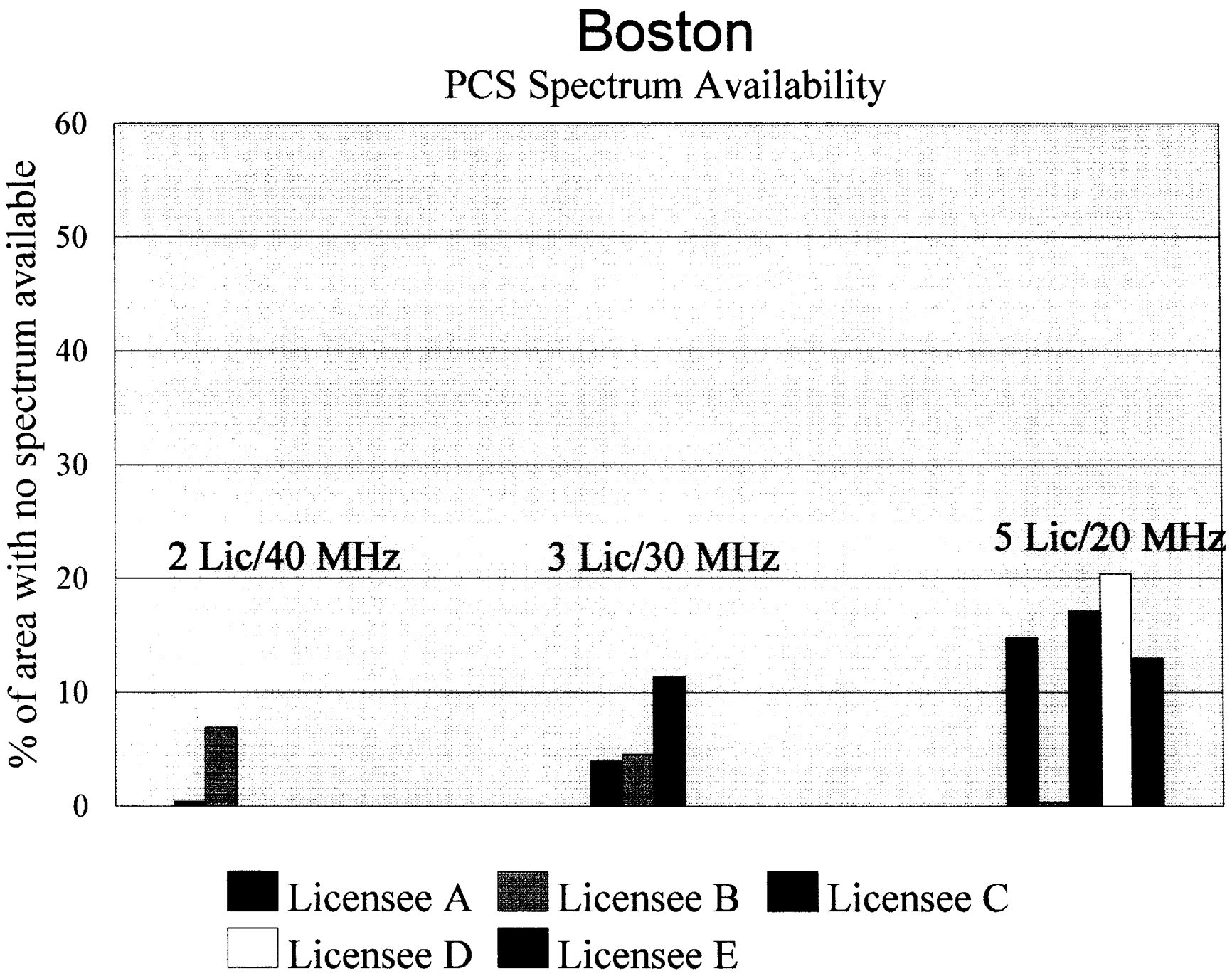
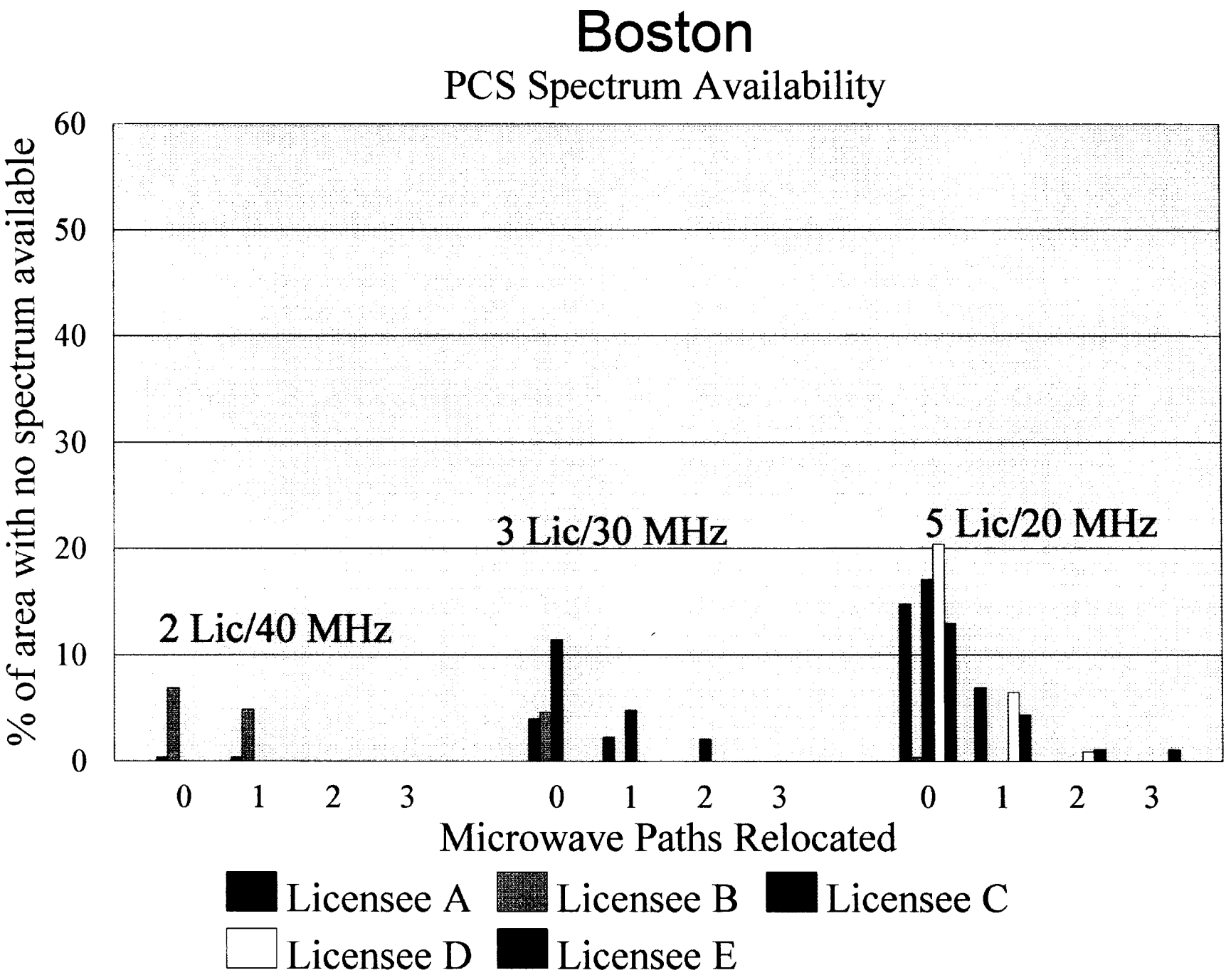
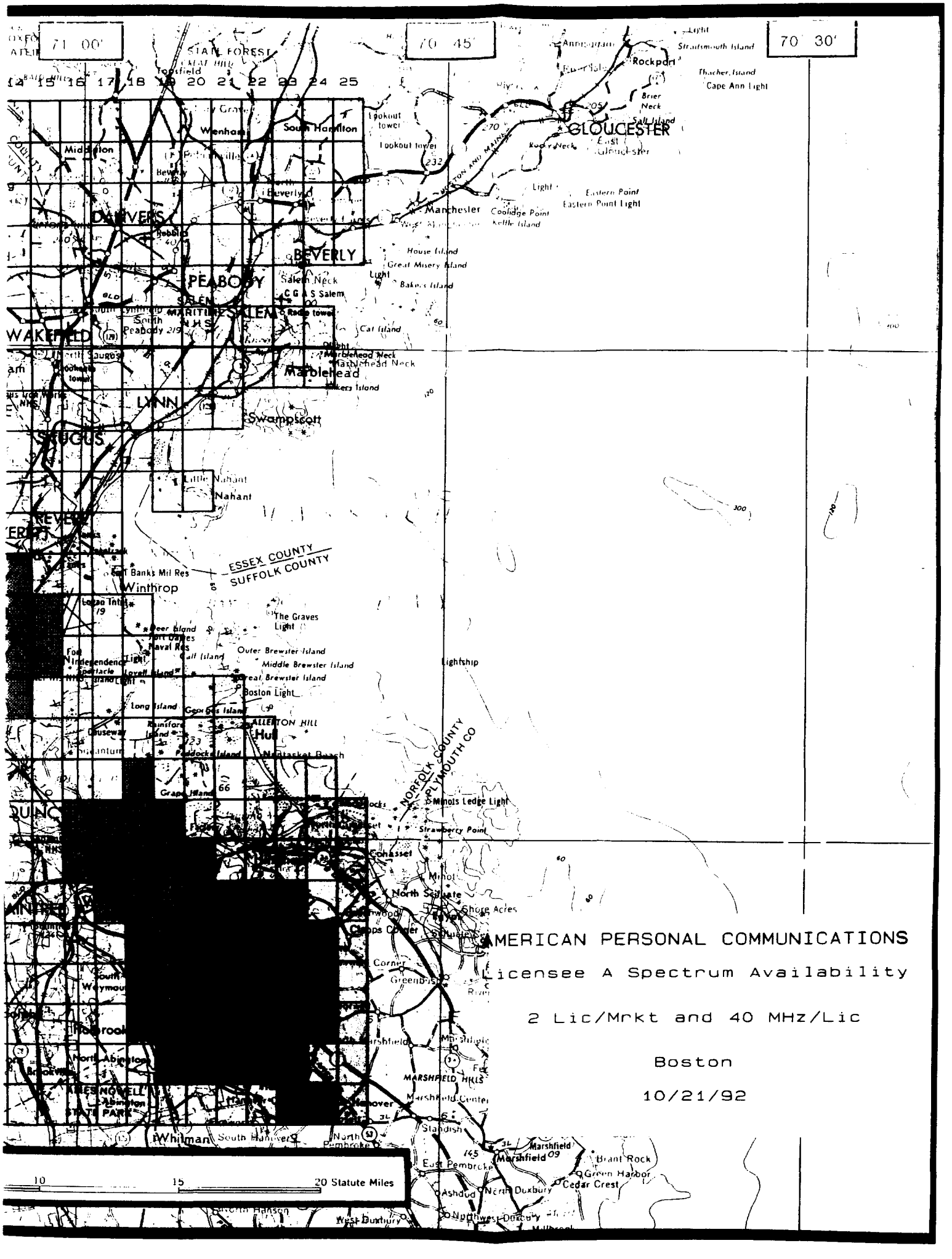

LEGEND
Available Spectrum
Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
3
83° 30'
83° 15'
42° 30'
42° 15'
PONTIAC
TROY
SOUTHFIELD
LIVONIA
GARDEN CITY
WESTLAND
Norwayne
Wayne
Romulus
YPSILANTI
Willow Run
Bastlawn
Belleville
Sumpter
Martinsville
West Sumpter
Stony Creek
Paint Creek
Whittaker
Oakville
MONROE COUNTY
WASHTENAW COUNTY
WAYNE COUNTY
Carleton
Grafton
Waltz
Willow
New Boston
Blakely Drain
Detroit Metropolitan Wayne Co.
Dixboro
Mettetal
National
Newburgh
Perrinville
Sheldon
Denton
Rawsonville
Ford Lake
Larsen
Franklin Ranchero
Radio relay tower
Radio tower
Radio towers
Coventry Gardens
Westmore
Keego Harbor
Commerce
Union Lake
Elizabeth Lake Estates
Auburn Heights
Radio Station
South Lyon
Worden
Radio tower
Cherry Hill
Sugar Drain
Fowler Cr
Lower River Rouge
Sugar Creek
Swan Creek
Swan Drain
Stony Creek
Blakely Drain
Detroit Toledo and Iron
Norfolk and Western
Pennsylvania
Ohio
Cem
Azalia
5
0
5

Boston


Boston
PCS Spectrum Availability
% of area with no spectrum available
60
50
40
30
20
10
0
2 Lic/40 MHz
3 Lic/30 MHz
5 Lic/20 MHz
Licensee A
Licensee B
Licensee C
Licensee D
Licensee E


Boston
PCS Spectrum Availability
% of area with no spectrum available
60
50
40
30
20
10
0
2 Lic/40 MHz
3 Lic/30 MHz
5 Lic/20 MHz
0 1 2 3
0 1 2 3
0 1 2 3
Microwave Paths Relocated
Licensee A
Licensee B
Licensee C
Licensee D
Licensee E



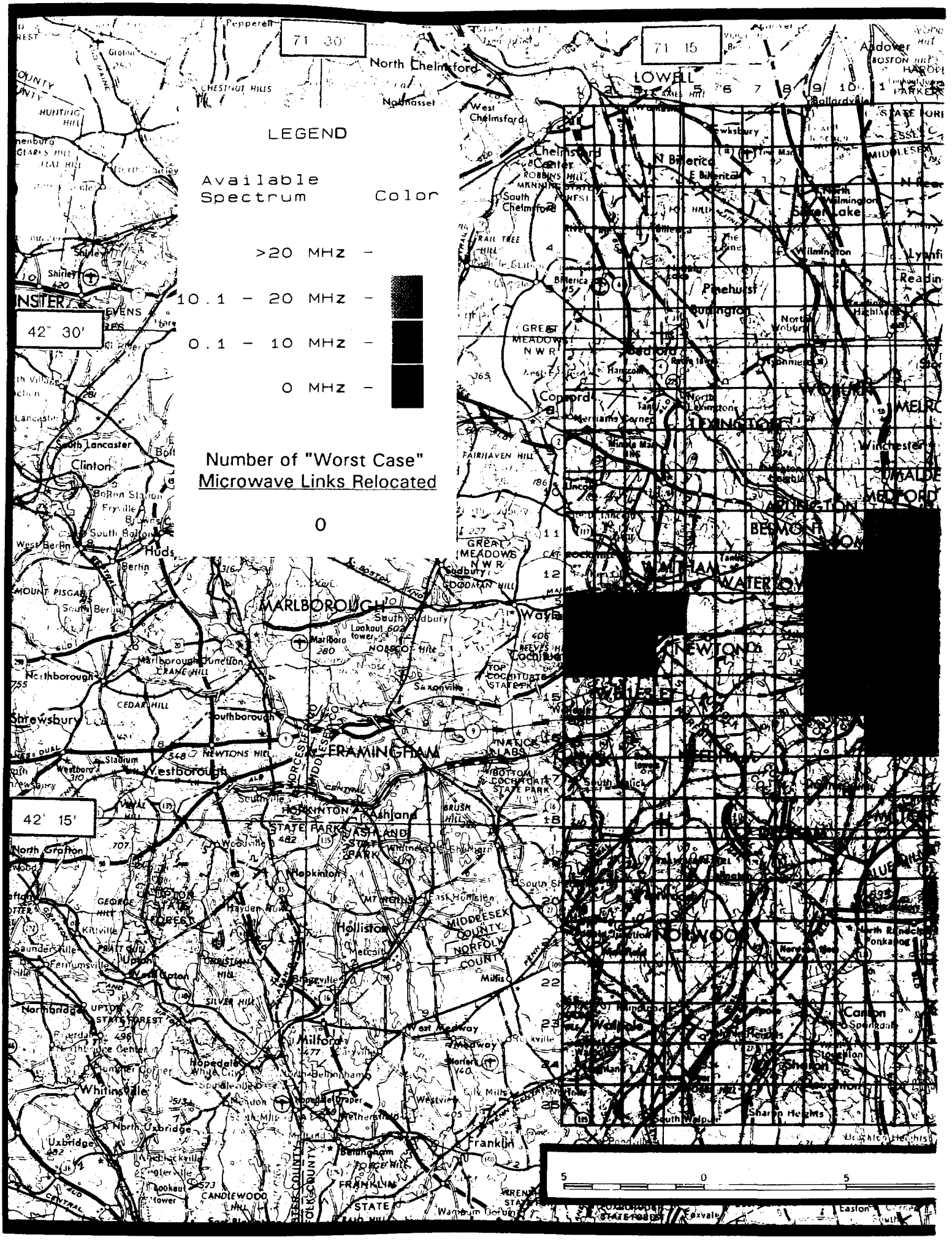
AMERICAN PERSONAL COMMUNICATIONS

Licensee A Spectrum Availability

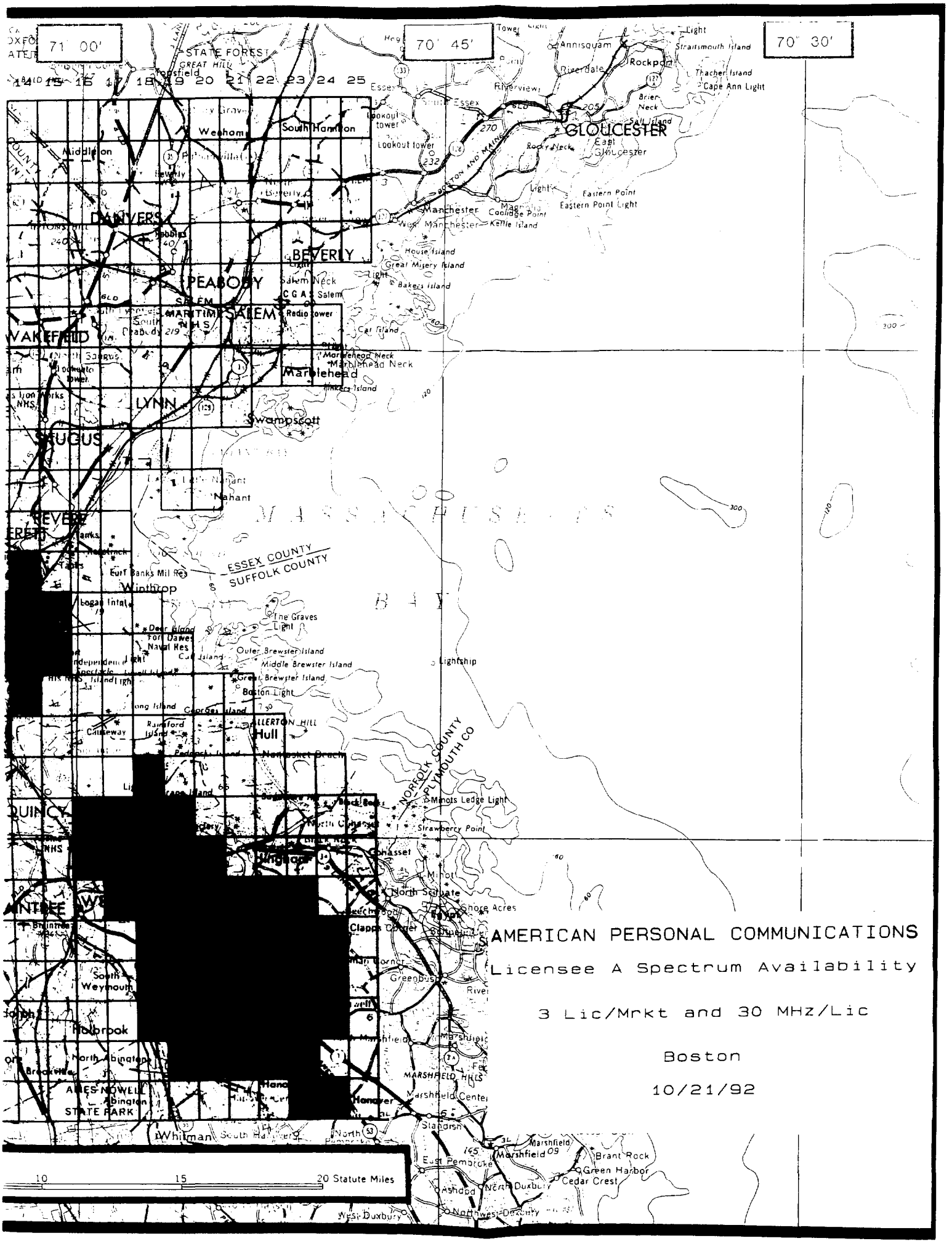
2 Lic/Mrkt and 40 MHz/Lic

Boston

10/21/92



LEGEND
Available Spectrum
Color
>20 MHz
10.1 - 20 MHz
0.1 - 10 MHz
0 MHz
Number of "Worst Case" Microwave Links Relocated
0
71° 30'
71° 15'
42° 30'
42° 15'
North Chelmsford
LOWELL
Andover
Chelmsford Center
N Billerica
Pinehurst
Burlington
Bedford
Concord
LEXINGTON
WOBURN
Winchester
MALDEN
MEDFORD
ARLINGTON
BELMONT
WALTHAM
WATERTOWN
NEWTON
WELLESLEY
NEEDHAM
NORWOOD
Canton
Sharon
Walpole
Clinton
South Lancaster
Bolton Station
Fryville
South Bolton
West Berlin
Berlin
MARLBOROUGH
South Sudbury
Marlboro
Northborough
Marlborough Junction
Shrewsbury
Southborough
FRAMINGHAM
Westborough
Ashland
Hopkinton
Holliston
Milford
Hopedale
Whitinsville
North Uxbridge
Uxbridge
Franklin
Bellingham
Wrentham
Sudbury
Saxonville
Cochituate
Wayland
Lincoln
Lexington
Wilmington
Reading
Lynnfield
Pepperell
Groton
Shirley
Ayer
Hudson
Northbridge
Upton
Mendon
Bellingham
Franklin
Wrentham
Easton
Foxvale
5
0
5



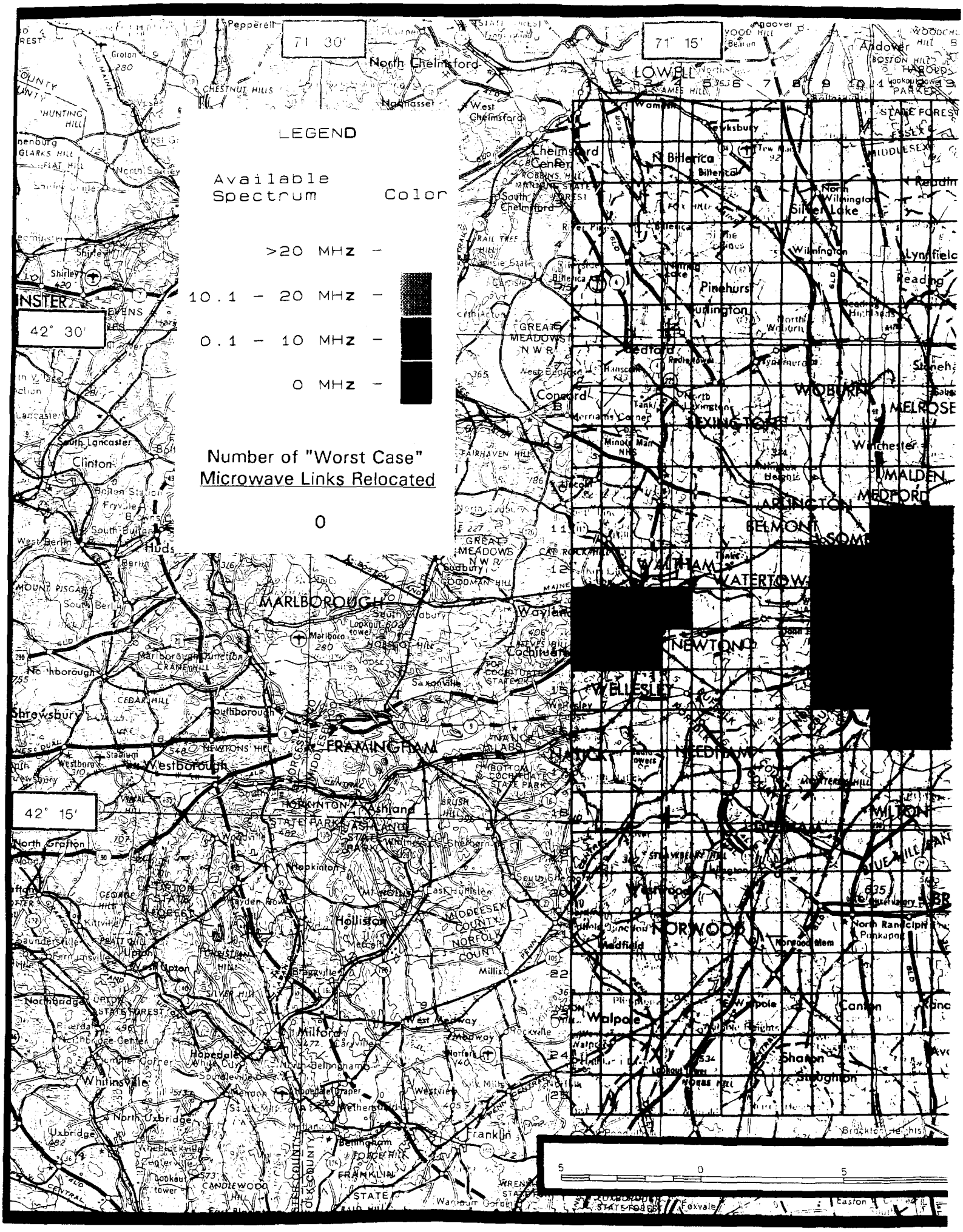
AMERICAN PERSONAL COMMUNICATIONS

Licensee A Spectrum Availability

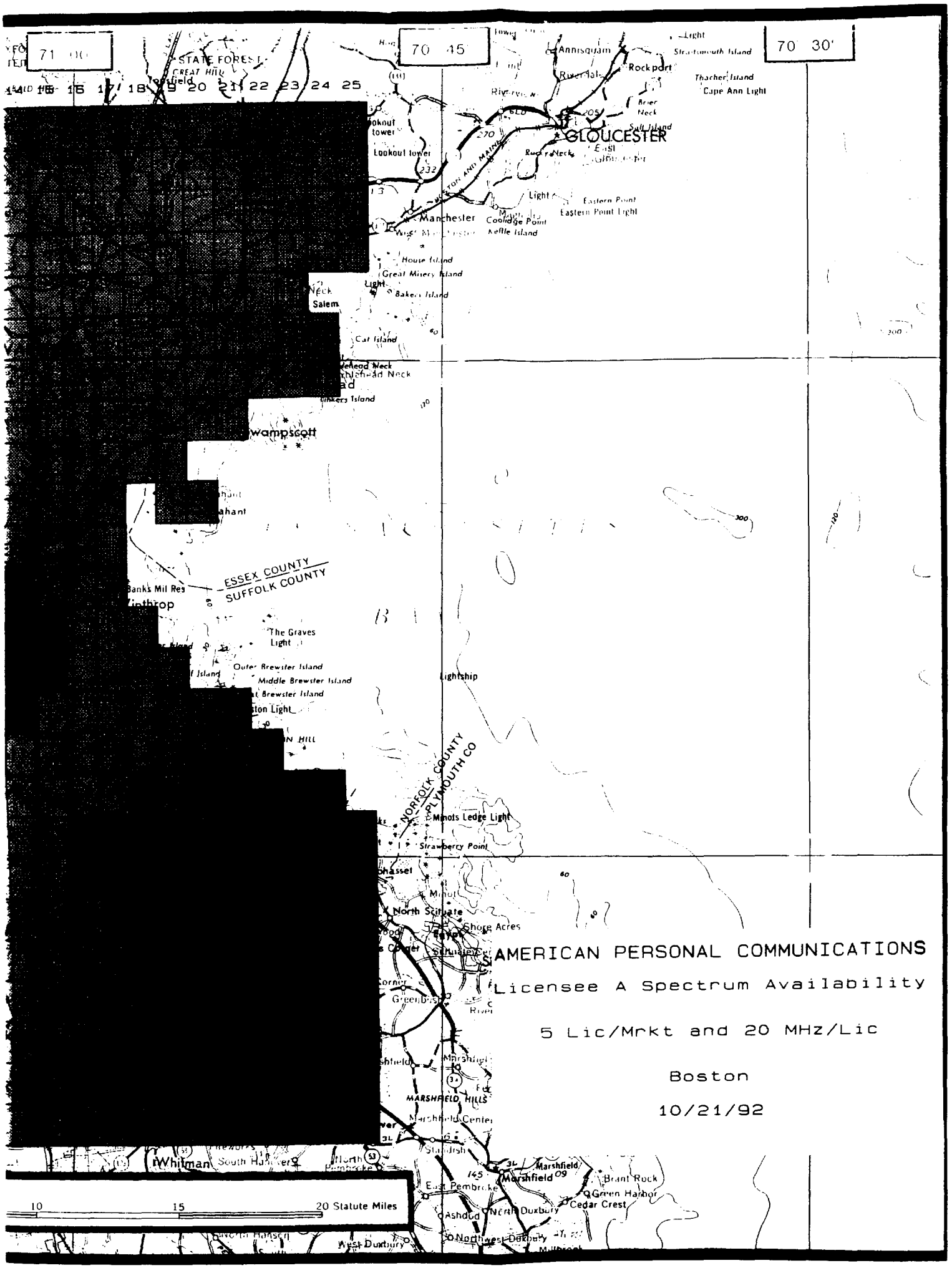
3 Lic/Mrkt and 30 MHz/Lic

Boston

10/21/92



LEGEND
Available Spectrum
Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
0
71° 30'
71° 15'
42° 30'
42° 15'
LOWELL
North Chelmsford
Chelmsford Center
N Billerica
Billerica
Silver Lake
Pinehurst
Burlington
Bedford
Concord
LEXINGTON
WOBURN
MELROSE
Winchester
MALDEN
MEDFORD
ARLINGTON
BELMONT
WALTHAM
WATERTOWN
NEWTON
WELLESLEY
NATICK
NEEDHAM
MILTON
NORWOOD
Walpole
Canton
Sharon
Stoughton
MARLBOROUGH
Marlboro
Southborough
FRAMINGHAM
Westborough
Ashland
Hopkinton
Holliston
Milford
Hopedale
Whitinsville
North Uxbridge
Uxbridge
Franklin
Clinton
Shirley
Shrewsbury
Northborough
Sudbury
Wayland
Cochituate
Saxonville
Medfield
Norwood Mem
North Randolph
Ponkapog
Foxvale
Easton
5
0
5



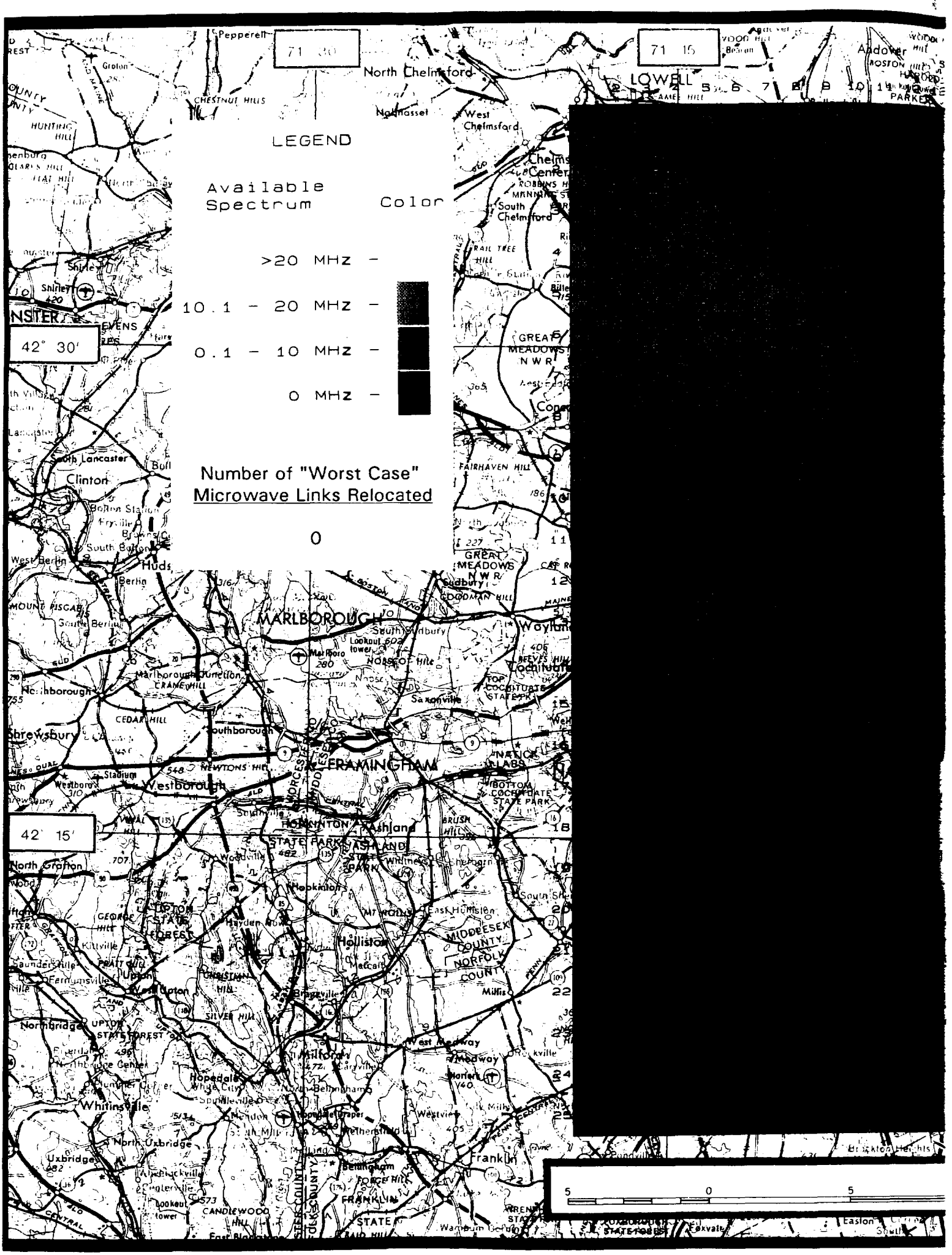
AMERICAN PERSONAL COMMUNICATIONS

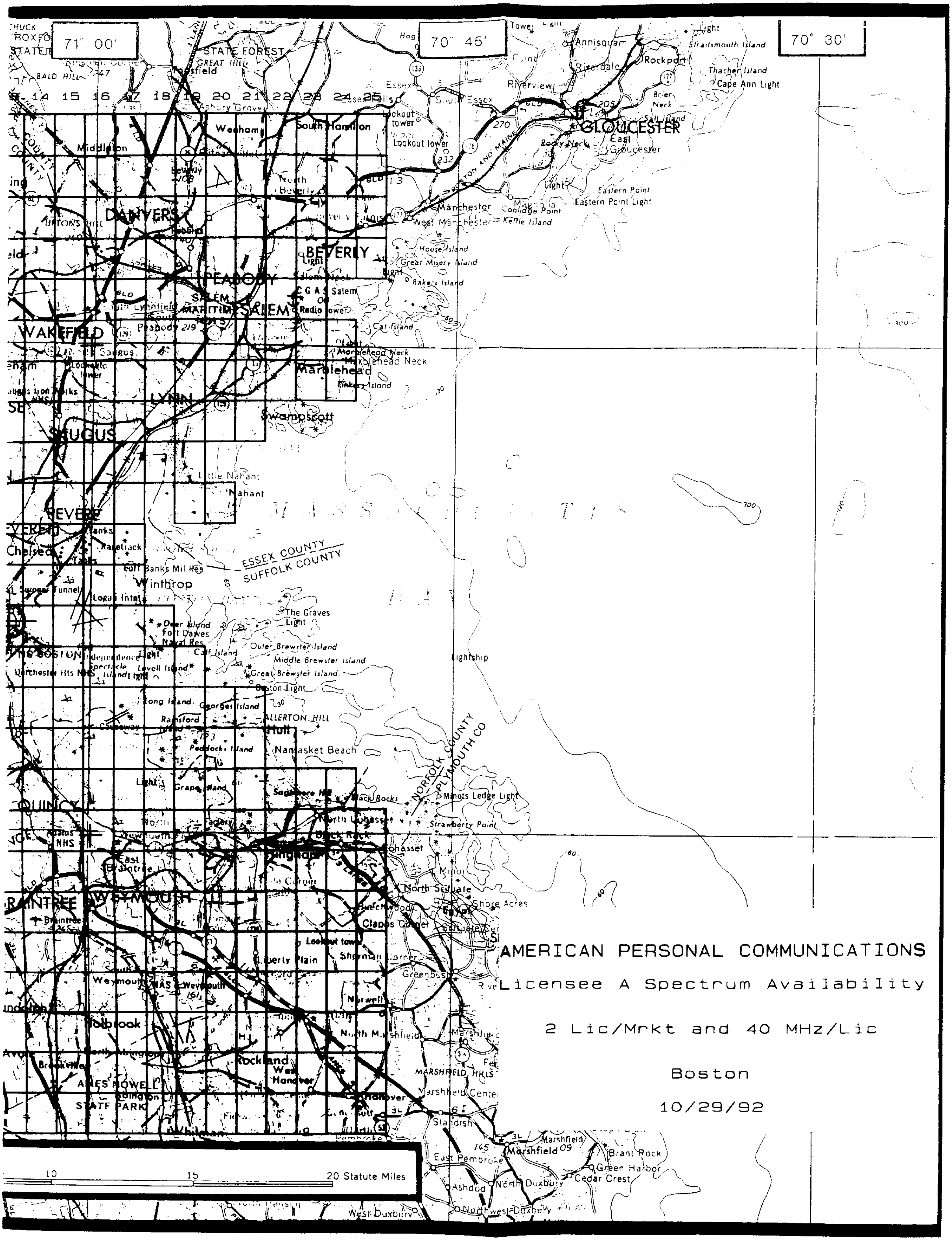
Licensee A Spectrum Availability

5 Lic/Mrkt and 20 MHz/Lic

Boston

10/21/92


LEGEND
Available Spectrum
Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
0
71 30
71 15
42° 30'
42° 15'
North Chelmsford
LOWELL
Andover
Shirley
Clinton
MARLBOROUGH
Marlborough
Northborough
Southborough
Shrewsbury
Westborough
FRAMINGHAM
Ashland
Hopkinton
Holliston
Milford
Hopedale
Whitinsville
Uxbridge
Franklin
Bellingham
Medway
West Medway
Millis
Saxonville
Sudbury
Wayland
Cochituate
Natick
Upton
Northbridge
North Uxbridge
Mendon
Wrentham
Easton
MIDDLESEX COUNTY
NORFOLK COUNTY
WORCESTER COUNTY
GREAT MEADOWS NWR
NATICK LABS
BOTTOM COCHITUATE STATE PARK
HOPKINTON STATE PARK
ASHLAND STATE PARK
UPTON STATE FOREST
FRANKLIN STATE FOREST
5
0
5



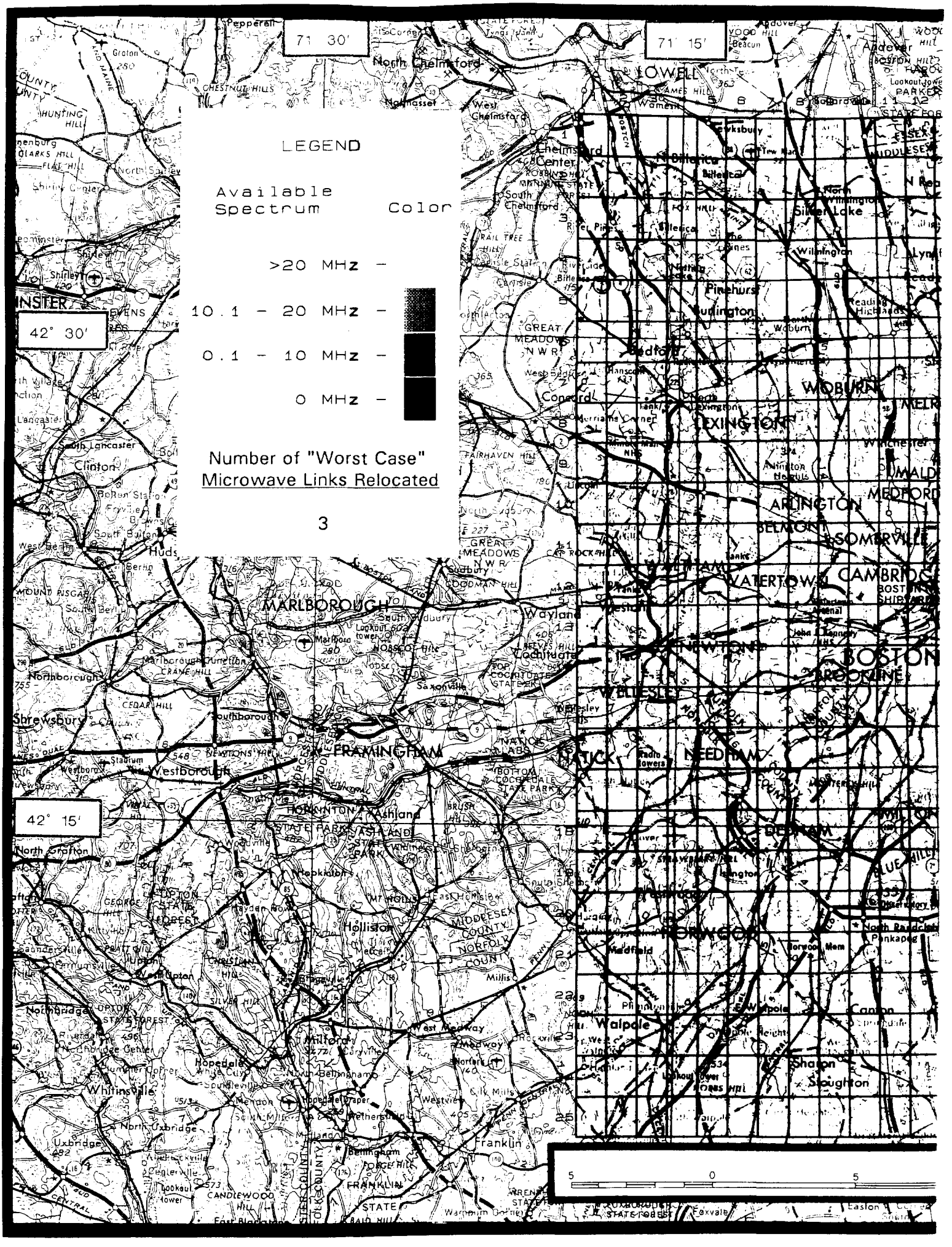
AMERICAN PERSONAL COMMUNICATIONS

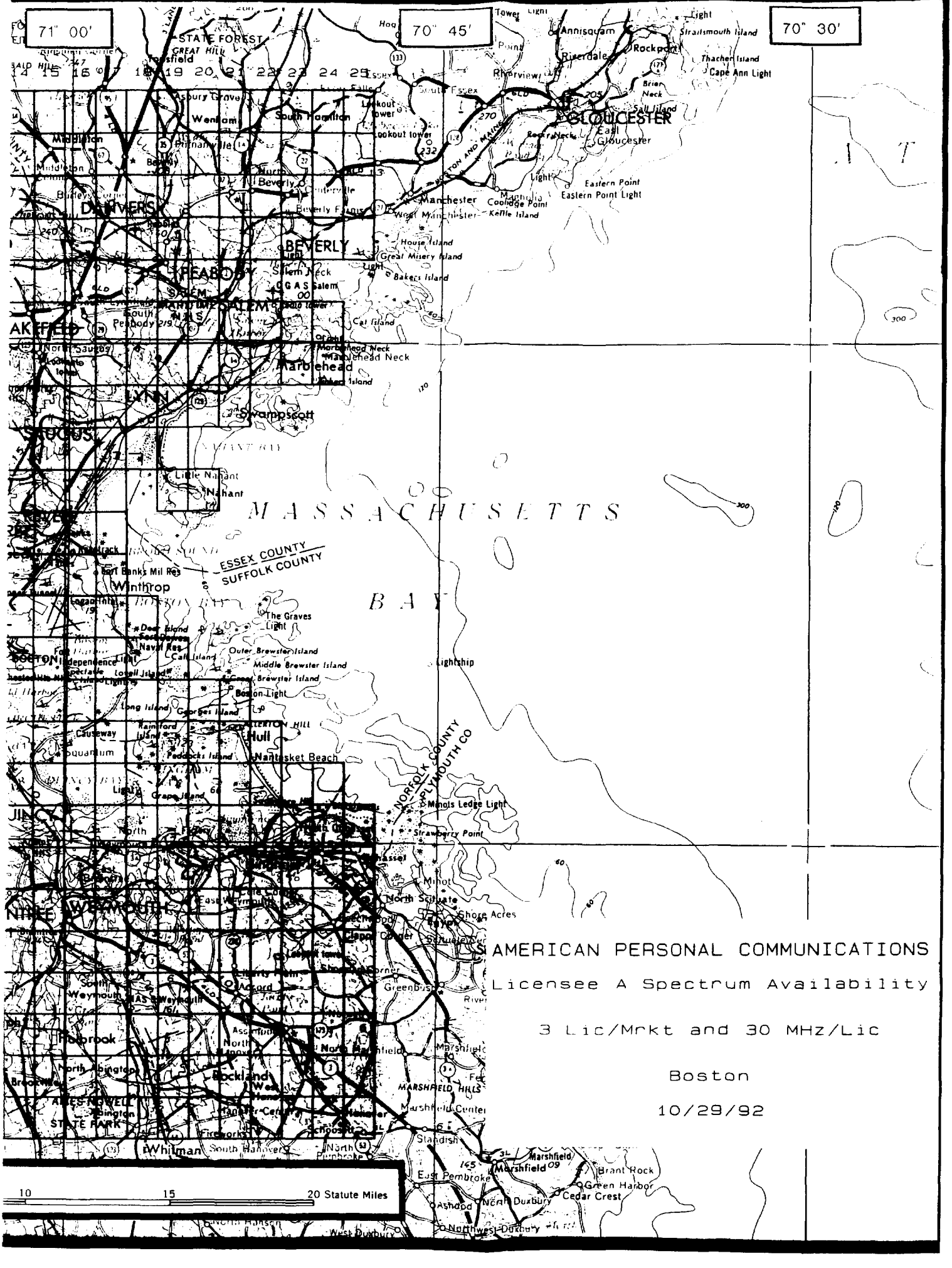
Licensee A Spectrum Availability

2 Lic/Mrkt and 40 MHz/Lic

Boston

10/29/92


71° 30'
71° 15'
42° 30'
42° 15'
LEGEND
Available Spectrum Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
3
LOWELL
North Chelmsford
Chelmsford Center
Billerica
Silver Lake
Wilmington
Pinehurst
Burlington
Bedford
Concord
WOBURN
LEXINGTON
ARLINGTON
BELMONT
SOMERVILLE
WATERTOWN
CAMBRIDGE
MARLBOROUGH
Wayland
Cochituate
NEWTON
BOSTON
BROOKLINE
WELLESLEY
FRAMINGHAM
NATICK
NEEDHAM
DEDHAM
Westborough
Ashland
Hopkinton
Holliston
Milford
Hopedale
Whitinsville
Uxbridge
Franklin
Walpole
Sharon
Stoughton
Canton
Shrewsbury
Northborough
Clinton
Shirley
Pepperell
Groton
Nashoba
Westford
Hudson
Berlin
Sudbury
Saxonville
Medfield
Norwood
Bellingham
Mendon
Upton
Northbridge
Lancaster
Bolton Station
Fairhaven Hill
Great Meadows N W R
Middlesex County
Norfolk County
Franklin State
5 0 5



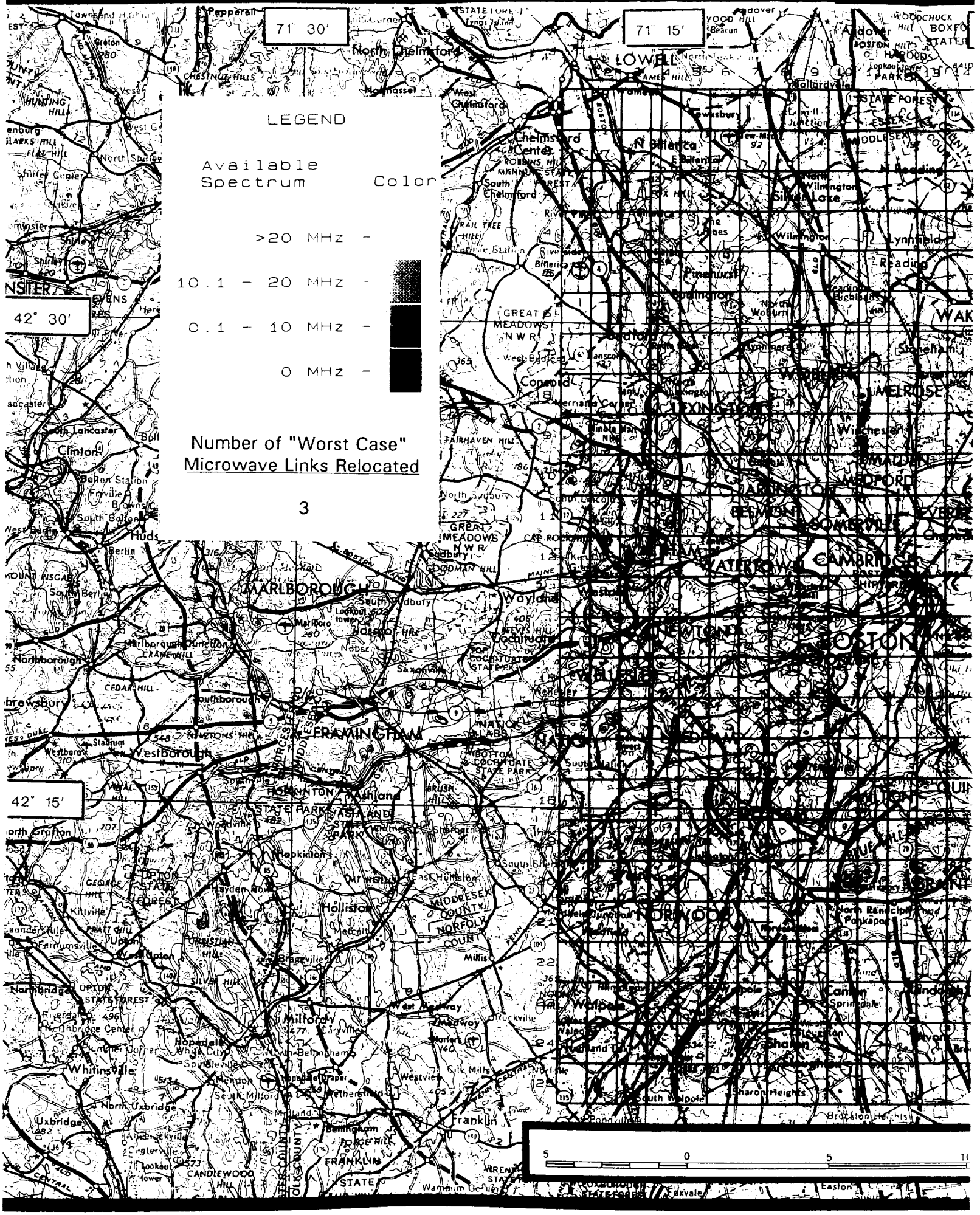
AMERICAN PERSONAL COMMUNICATIONS

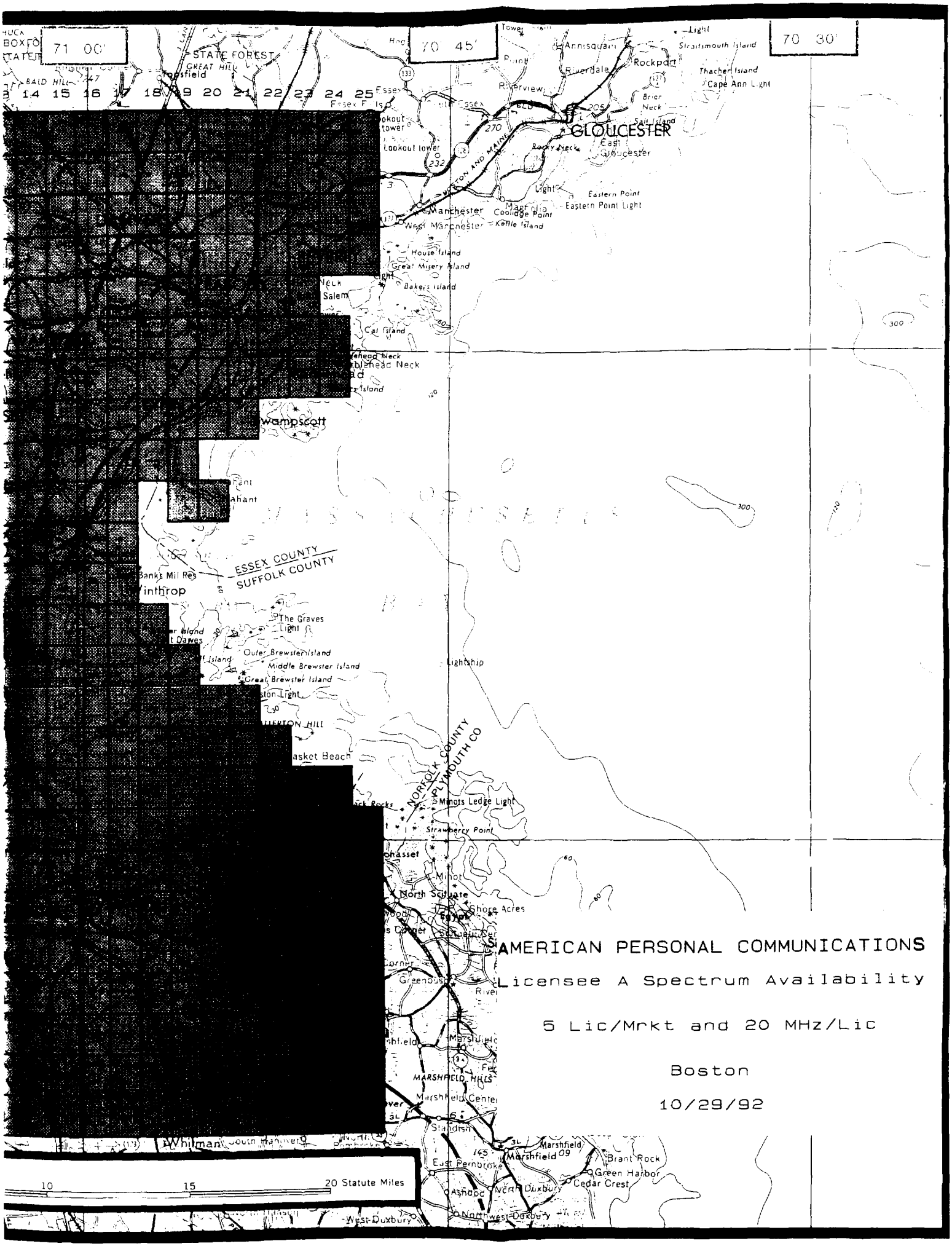
Licensee A Spectrum Availability

3 Lic/Mrkt and 30 MHz/Lic

Boston

10/29/92


71° 30'
71° 15'
42° 30'
42° 15'
LEGEND
Available Spectrum Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
3
North Chelmsford
LOWELL
Chelmsford
Billerica
Reading
Lynnfield
Concord
Lexington
Winchester
Medford
Arlington
Belmont
Cambridge
Boston
Newton
Wayland
Natick
Framingham
Marlborough
Southborough
Westborough
Hopkinton
Ashland
Holliston
Milford
Franklin
Norwood
Walpole
Sharon
Uxbridge
Whitinsville
Clinton
Northborough
Brewster
Stoneham
Woburn
Pinehurst
Burlington
Sudbury
Lincoln
Waltham
Brookline
Dedham
Milton
Quincy
Brockton
Easton
Foxvale
Bellingham
Medway
Millis
Franklin
Hopedale
Upton
Northbridge
Shirley
Ayer
Groton
Pepperell
Tyngsboro
Dracut
Tewksbury
Wilmington
Stoneham
Melrose
Malden
Everett
Somerville
Watertown
Cambridge
Brookline
Roxbury
Dorchester
Hyde Park
Milton
Randolph
Canton
Sharon
Foxboro
Mansfield
Attleboro
Rockland
Hingham
Cohasset
Scituate
Marshfield
Duxbury
Plymouth
Kingston
Halifax
Bridgewater
Raynham
Taunton
Middleborough
Lakeville
Rochester
Marion
Mattapoisett
Wareham
Fairhaven
Acushnet
Rochester
Mashpee
Falmouth
Bourne
Sandwich
Barnstable
Yarmouth
Dennis
Harwich
Chatham
Orleans
Eastham
Wellfleet
Truro
Provincetown
Chilmark
Gosnold
Tisbury
Edgartown
Oak Bluffs
Vineyard Haven
Nantucket
Gay Head
Aquinnah
Martha's Vineyard
Cape Cod
Buzzards Bay
Vineyard Sound
Nantucket Sound
Massachusetts Bay
Boston Harbor
Cape Ann
Ipswich Bay
Merrimack River
Charles River
Neponset River
Blackstone River
Nashua River
Quinsigamond Lake
Wachusett Reservoir
Quabbin Reservoir
Great Meadows N.W.R.
Middlesex County
Norfolk County
Plymouth County
Bristol County
Barnstable County
Dukes County
Nantucket County
5 0 5 10



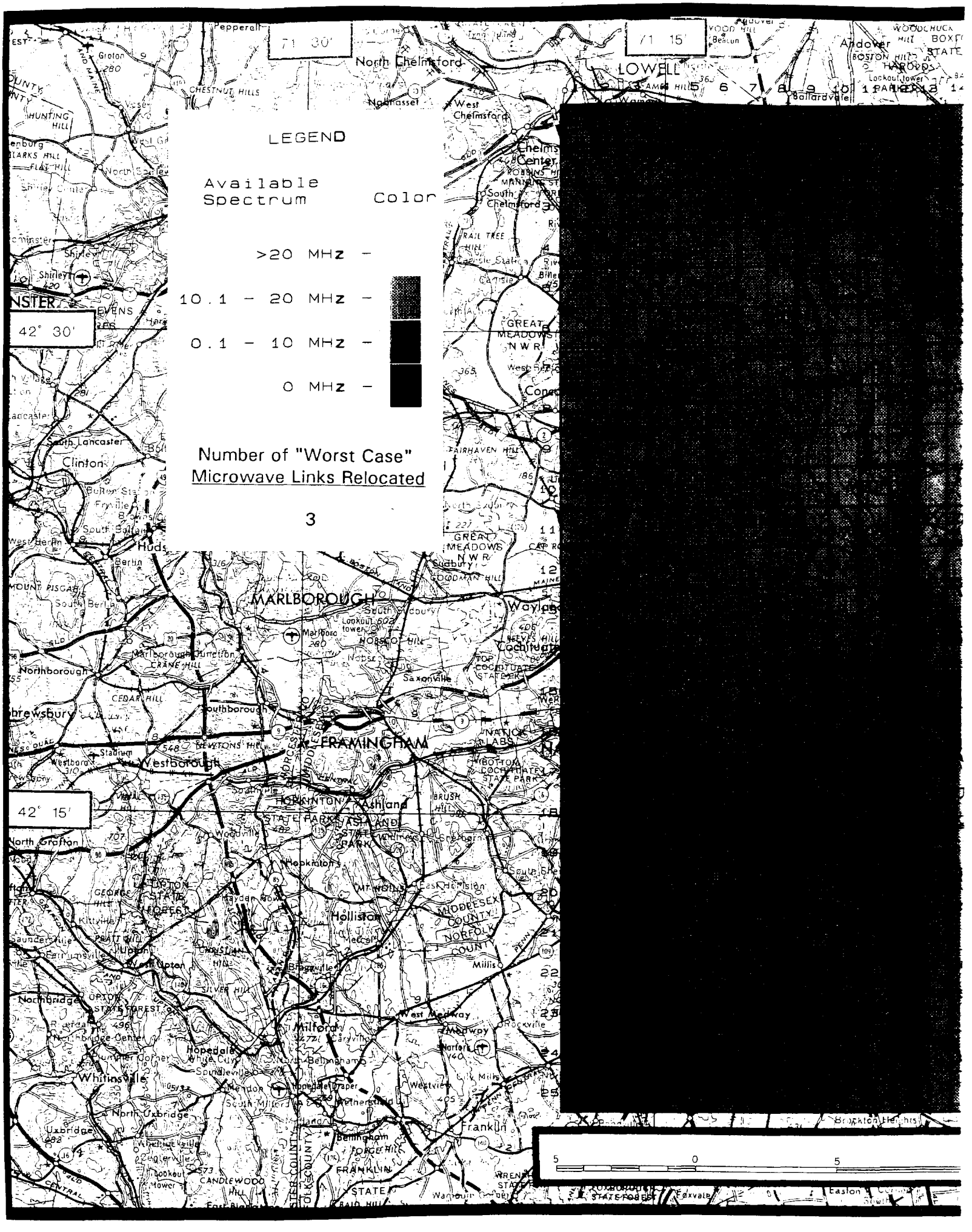
AMERICAN PERSONAL COMMUNICATIONS

Licensee A Spectrum Availability

5 Lic/Mrkt and 20 MHz/Lic

Boston

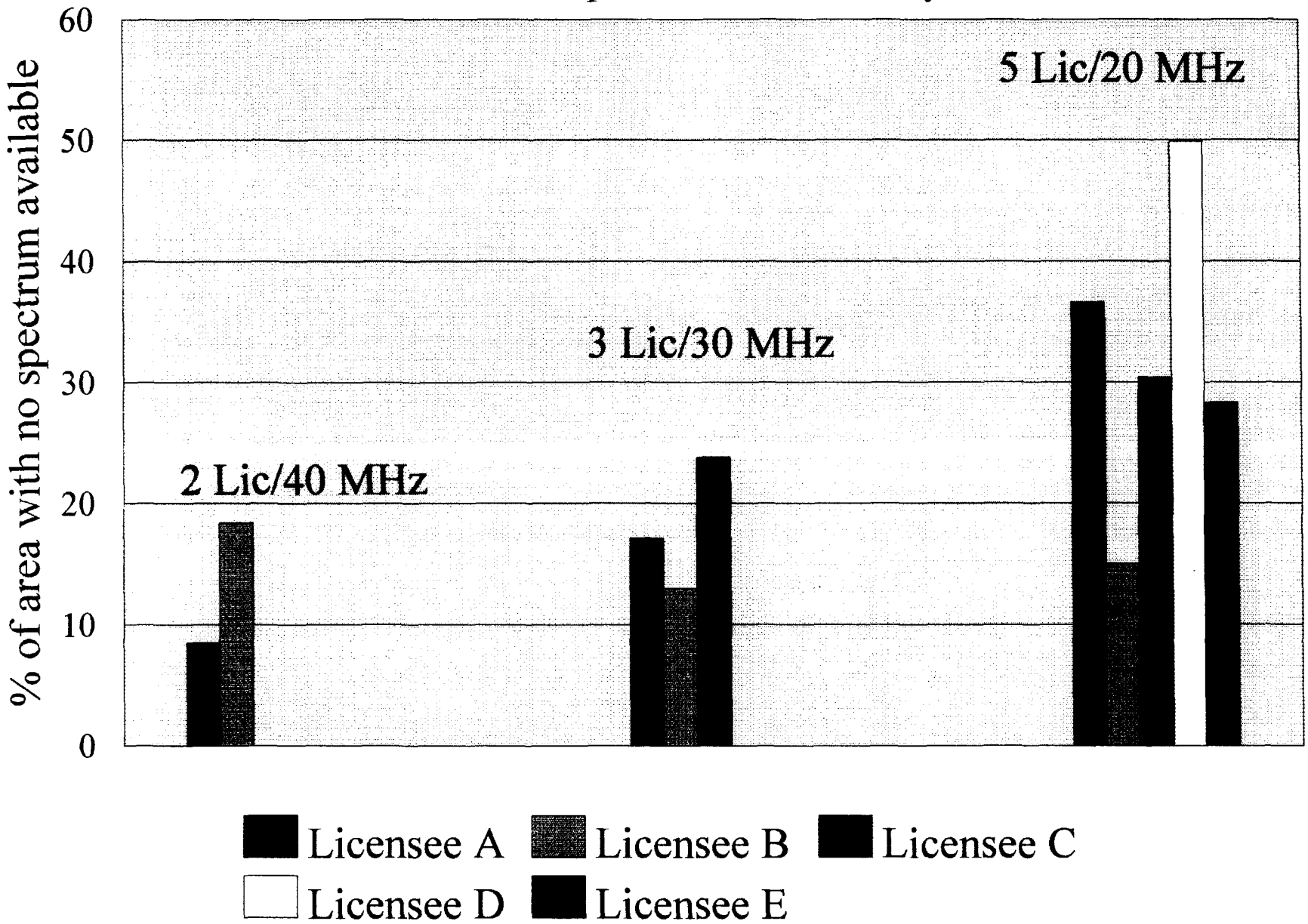
10/29/92

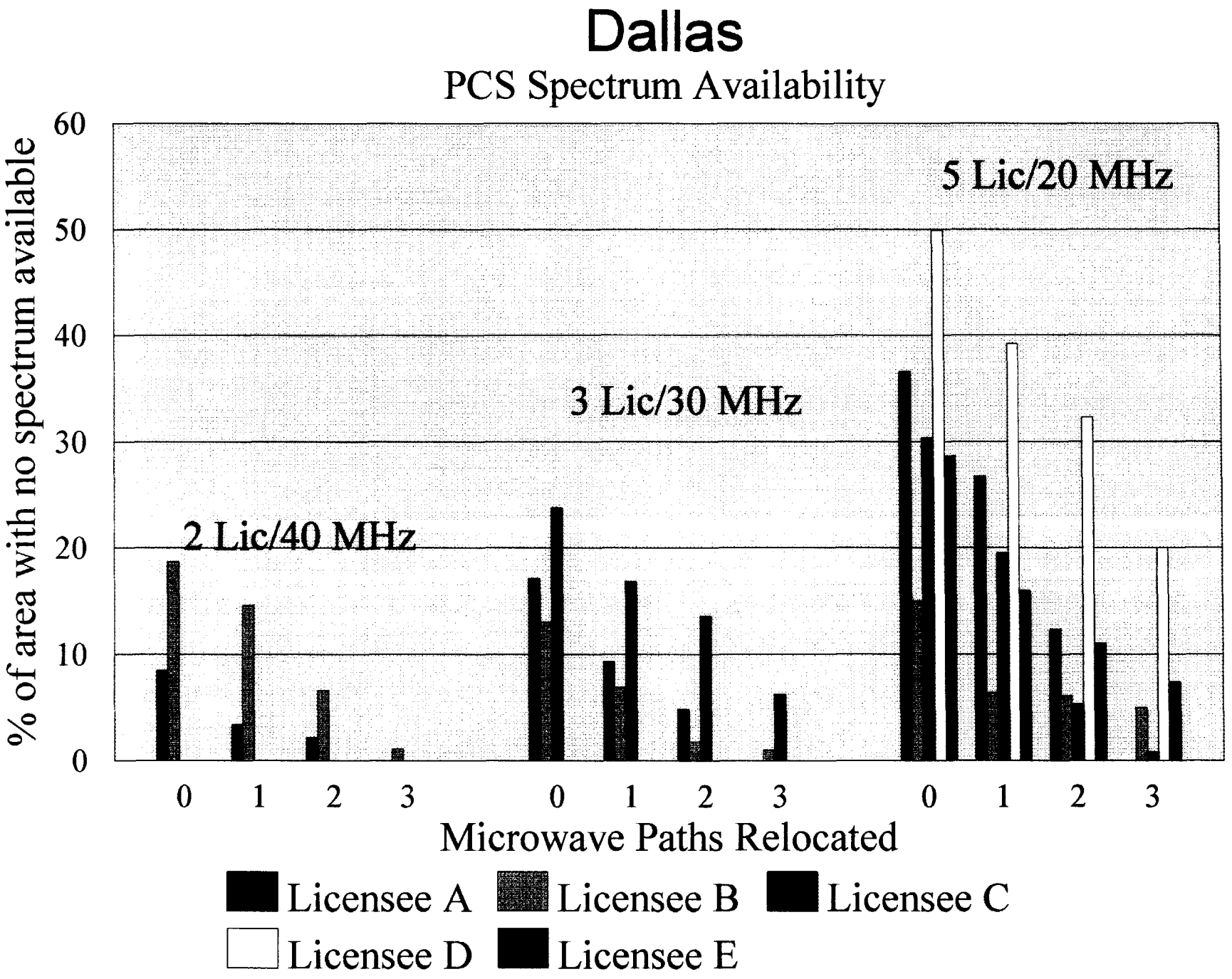

LEGEND
Available Spectrum
Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
3
71° 30'
71° 15'
42° 30'
42° 15'
North Chelmsford
LOWELL
MARLBOROUGH
FRAMINGHAM
Westborough
Ashland
Holliston
Milford
Hopedale
Whitinsville
Franklin
Clinton
Northborough
Saxonville
Hopkinton
Upton
Northbridge
Uxbridge
North Uxbridge
Bellingham
Medway
West Medway
Millis
Andover
Ballardvale
Shirley
Groton
Pepperell
Nashoba
West Chelmsford
South Chelmsford
Carlisle
Sudbury
Waylands
Cochituate
Southborough
Westboro
Stadium
Northbridge Center
Hopedale Draper
Westview
Rockville
Easton
Foxvale
Brockton Heights
5
0
5

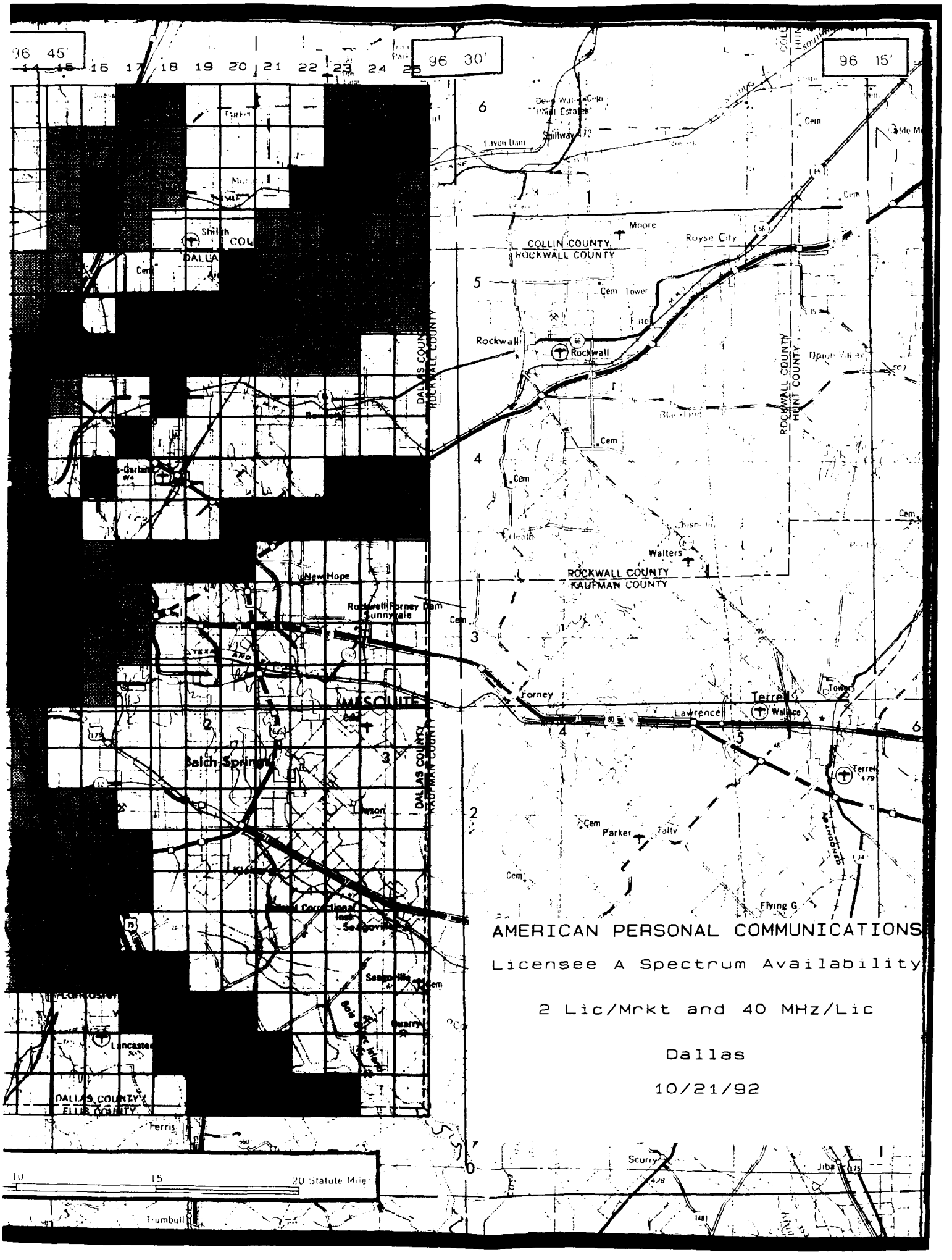
Dallas

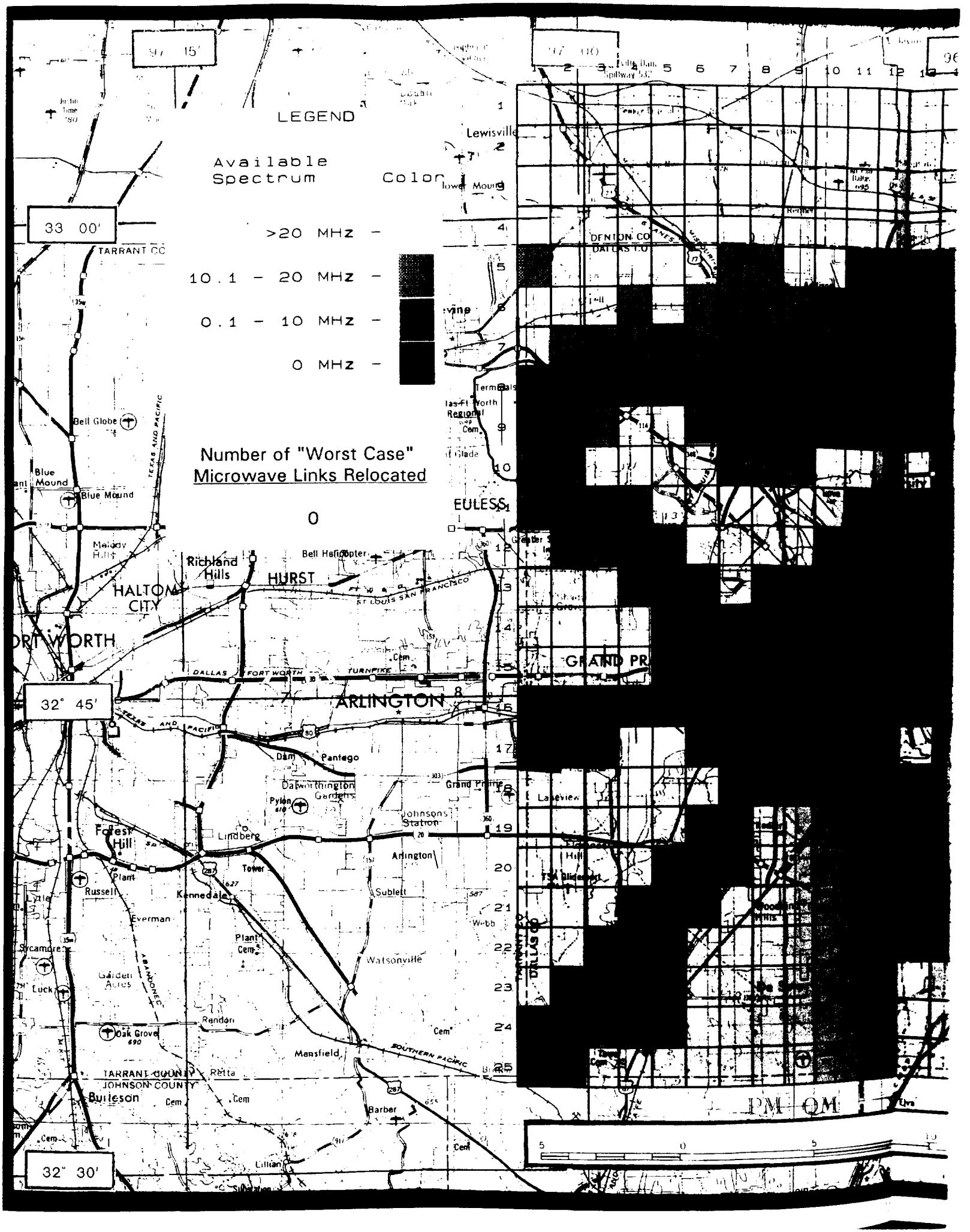
Dallas

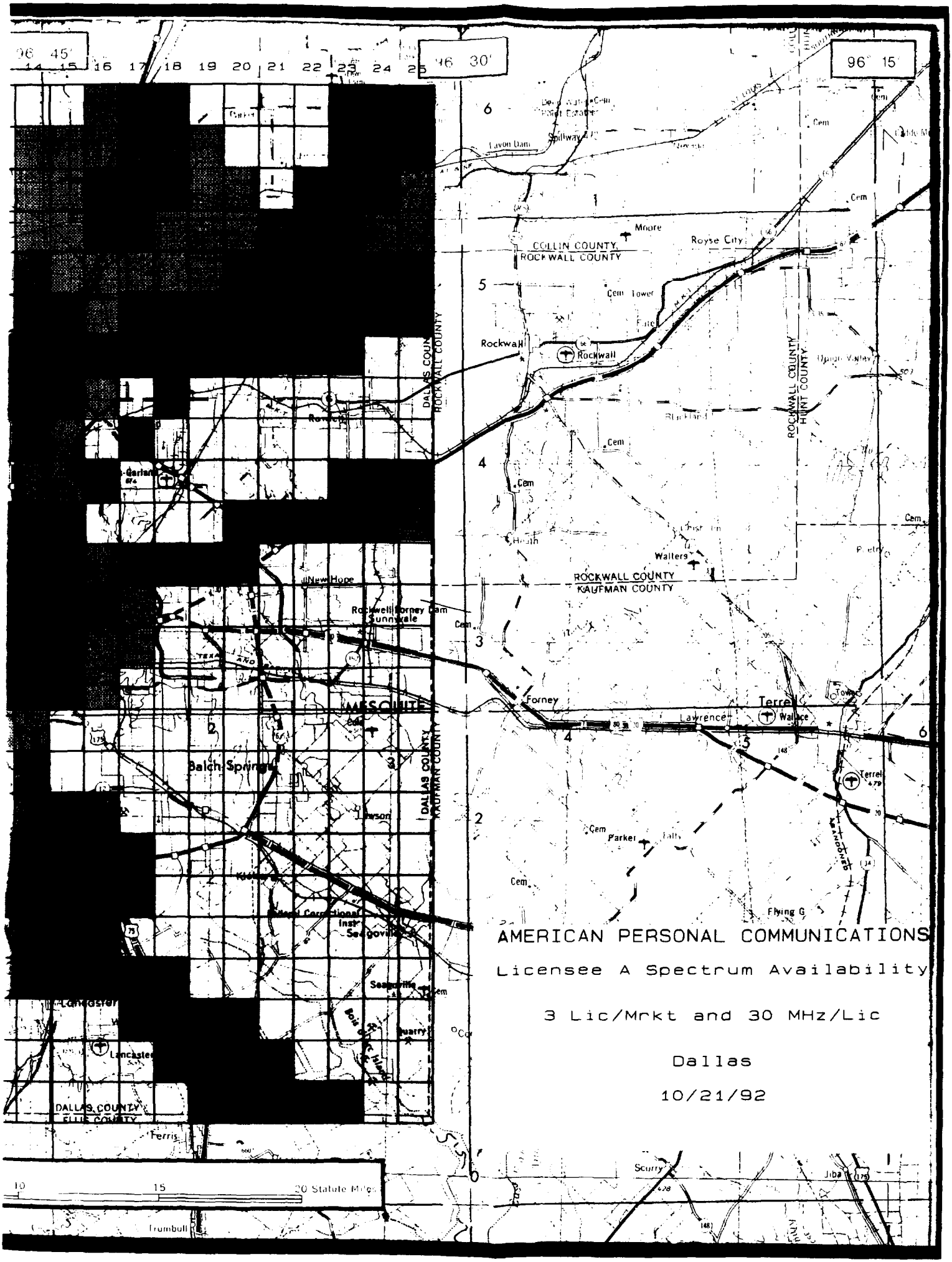
PCS Spectrum Availability




Dallas
PCS Spectrum Availability
% of area with no spectrum available
60
50
40
30
20
10
0
5 Lic/20 MHz
3 Lic/30 MHz
2 Lic/40 MHz
0 1 2 3 0 1 2 3 0 1 2 3
Microwave Paths Relocated
Licensee A
Licensee B
Licensee C
Licensee D
Licensee E


AMERICAN PERSONAL COMMUNICATIONS
Licensee A Spectrum Availability
2 Lic/Mrkt and 40 MHz/Lic
Dallas
10/21/92
96 45'
96 30'
96 15'
Lavon Dam
Moore
Royse City
COLLIN COUNTY
ROCKWALL COUNTY
Rockwall
DALLAS COUNTY
ROCKWALL COUNTY
ROCKWALL COUNTY
HUNT COUNTY
Walters
ROCKWALL COUNTY
KAUFMAN COUNTY
New Hope
Rockwall-Forney Dam
Sunnyvale
MESQUITE
Forney
Lawrence
Terrell
Balch Springs
Seagoville
DALLAS COUNTY
KAUFMAN COUNTY
Parker
Flying G
Lancaster
DALLAS COUNTY
ELLIS COUNTY
Ferris
Scurry
Jiba
Trumbull
10
15
20 Statute Miles


LEGEND
Available Spectrum Color
>20 MHz
10.1 - 20 MHz
0.1 - 10 MHz
0 MHz
Number of "Worst Case" Microwave Links Relocated
0
97° 15'
97° 00'
33° 00'
32° 45'
32° 30'
TARRANT CO
DENTON CO
DALLAS CO
Lewisville
Lower Mound
Irving
Terminals
Dallas-Ft Worth Regional
EULESS
Bell Helicopter
Richland Hills
HURST
HALTOM CITY
FORT WORTH
GRAND PR
ARLINGTON
Bell Globe
Blue Mound
Melody Hills
Pantego
Dalworthington Gardens
Pylon
Grand Prairie
Laneview
Johnsons Station
Lindberg
Forest Hill
Arlington
Tower
Plant
Russell
Kennedale
Sublett
Everman
Plant Cem
Watsonville
Sycamore
Garden Acres
Luck
Rendon
Oak Grove
Mansfield
Retta
TARRANT COUNTY
JOHNSON COUNTY
Burleson
Barber
Lillian
Webb
TEXAS AND PACIFIC
ST LOUIS SAN FRANCISCO
DALLAS FORT WORTH TURNPIKE
SOUTHERN PACIFIC
ABANDONED
PM QM



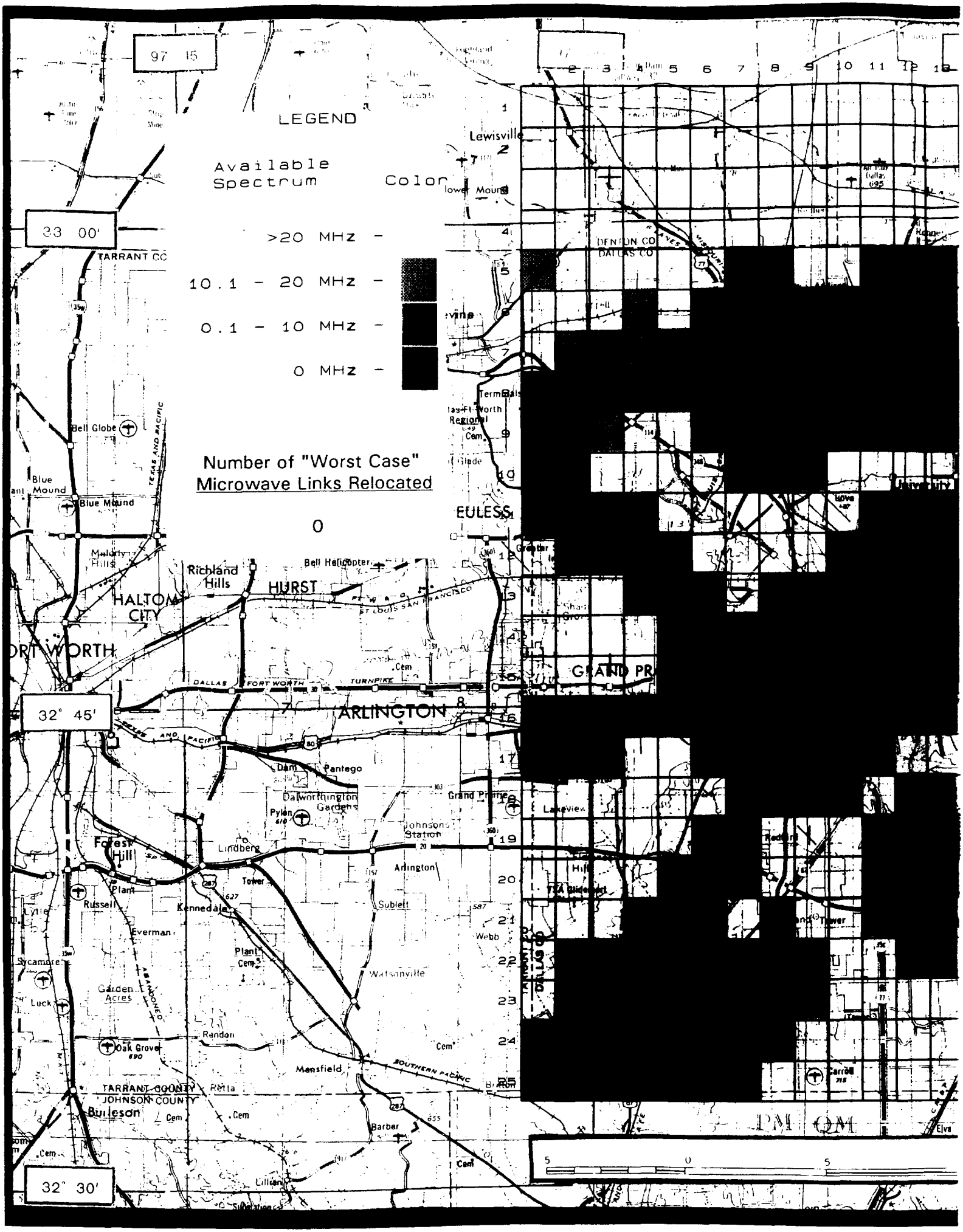
AMERICAN PERSONAL COMMUNICATIONS

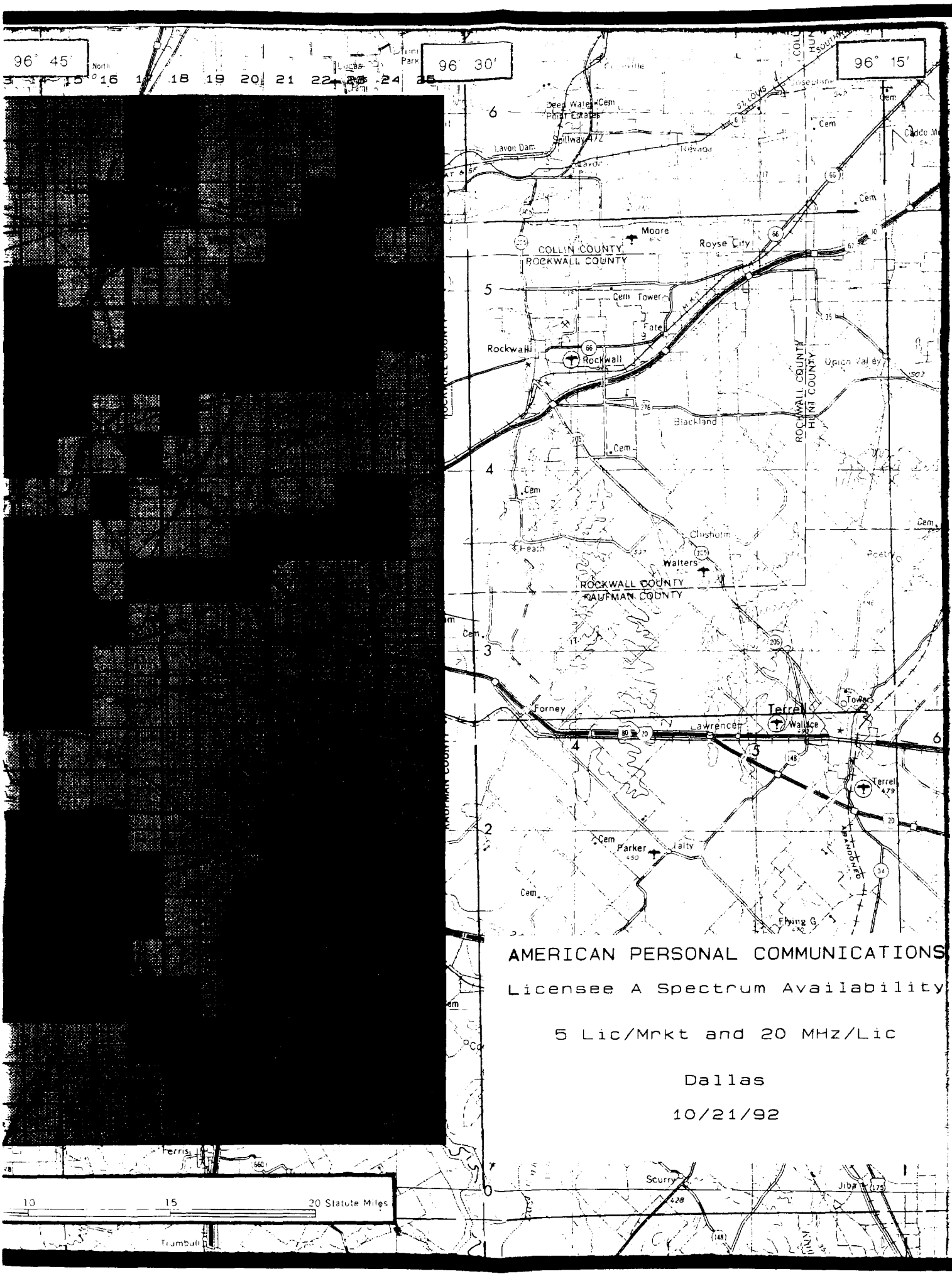
Licensee A Spectrum Availability

3 Lic/Mrkt and 30 MHz/Lic

Dallas

10/21/92


LEGEND
Available Spectrum Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
0
97 15
33 00'
32° 45'
32° 30'
TARRANT CO
DENTON CO
DALLAS CO
Lewisville
Lower Mound
Bell Globe
Blue Mound
Richland Hills
HURST
HALTOM CITY
FORT WORTH
EULESS
GRAND PR
ARLINGTON
Pantego
Dalworthington Gardens
Grand Prairie
Lakeview
Johnson Station
Forest Hill
Lindberg
Arlington
Russell
Kennedale
Sublett
Everman
Webb
Watsonville
Garden Acres
Randon
Oak Grove
Mansfield
TARRANT COUNTY
JOHNSON COUNTY
Burleson
Barber
Lillian
Carroll
TEXAS AND PACIFIC
DALLAS FORT WORTH TURNPIKE
ST LOUIS SAN FRANCISCO
SOUTHERN PACIFIC
ABANDONED
5 0 5



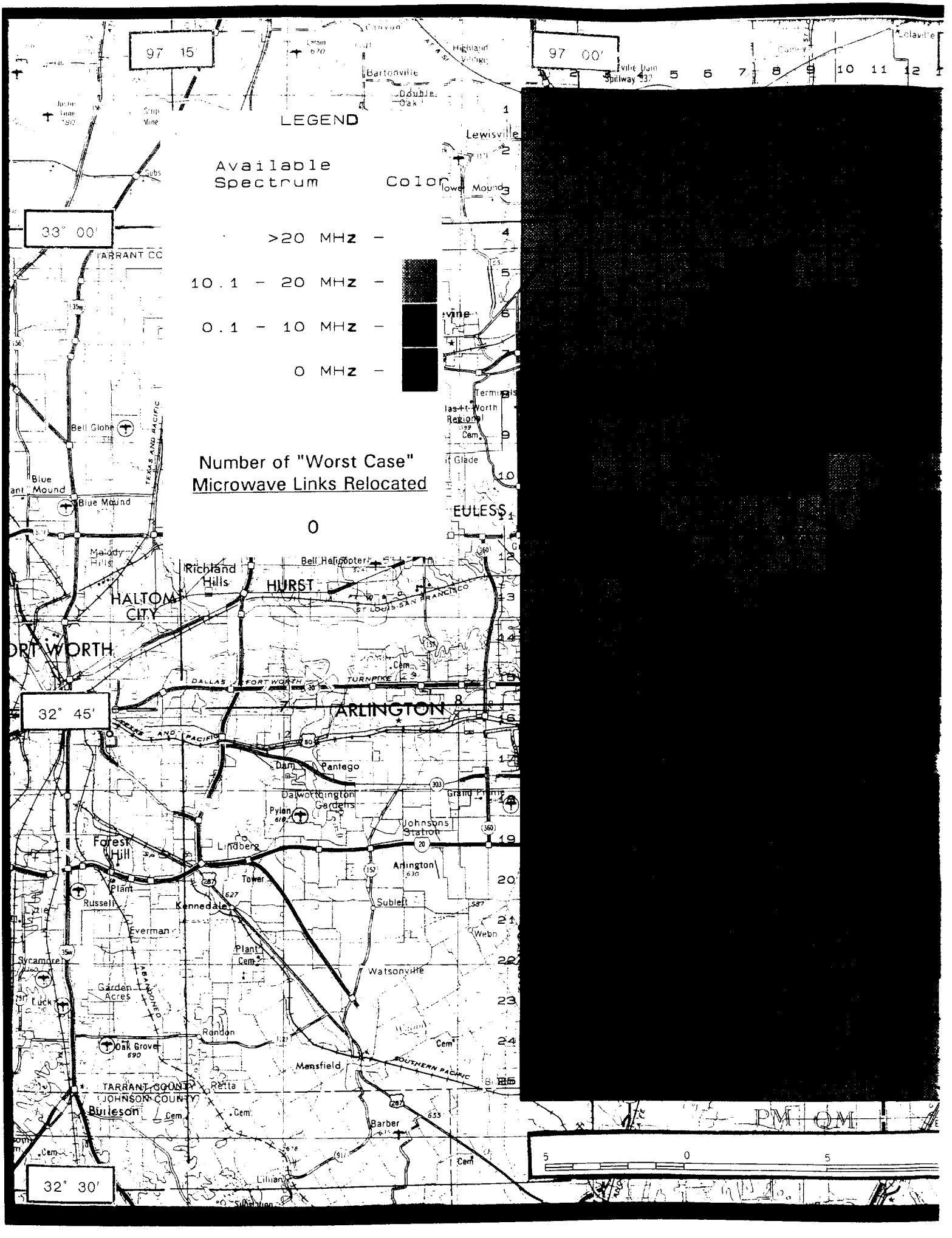
AMERICAN PERSONAL COMMUNICATIONS

Licensee A Spectrum Availability

5 Lic/Mrkt and 20 MHz/Lic

Dallas

10/21/92


LEGEND
Available Spectrum
Color
>20 MHz -
10.1 - 20 MHz -
0.1 - 10 MHz -
0 MHz -
Number of "Worst Case" Microwave Links Relocated
0
97° 15'
97° 00'
33° 00'
32° 45'
32° 30'
Lewisville
Bartonville
Double Oak
Highland Village
Lake Dallas
Spillway
Bell Globe
Blue Mound
Melody Hills
Richland Hills
HALTOM CITY
HURST
Bell Helicopter
EULESS
ST LOUIS-SAN FRANCISCO
DALLAS FORT WORTH TURNPIKE
ARLINGTON
Pantego
Dalworthington Gardens
Pylon
Johnsons Station
Grand Prairie
Forest Hill
Lindberg
Arlington
Tower
Russell
Kennedale
Sublett
Everman
Plant
Watsonville
Sycamore
Garden Acres
Luck
Randon
Oak Grove
Mansfield
SOUTHERN PACIFIC
TARRANT COUNTY
JOHNSON COUNTY
Retta
Burleson
Barber
Lillian
TEXAS AND PACIFIC
ABANDONED
PM QM
5 0 5