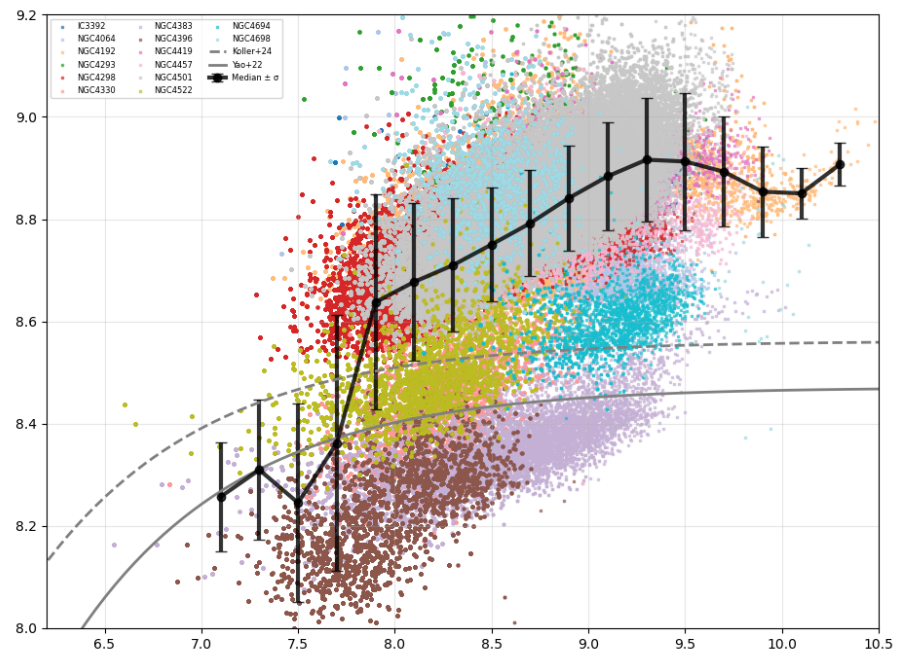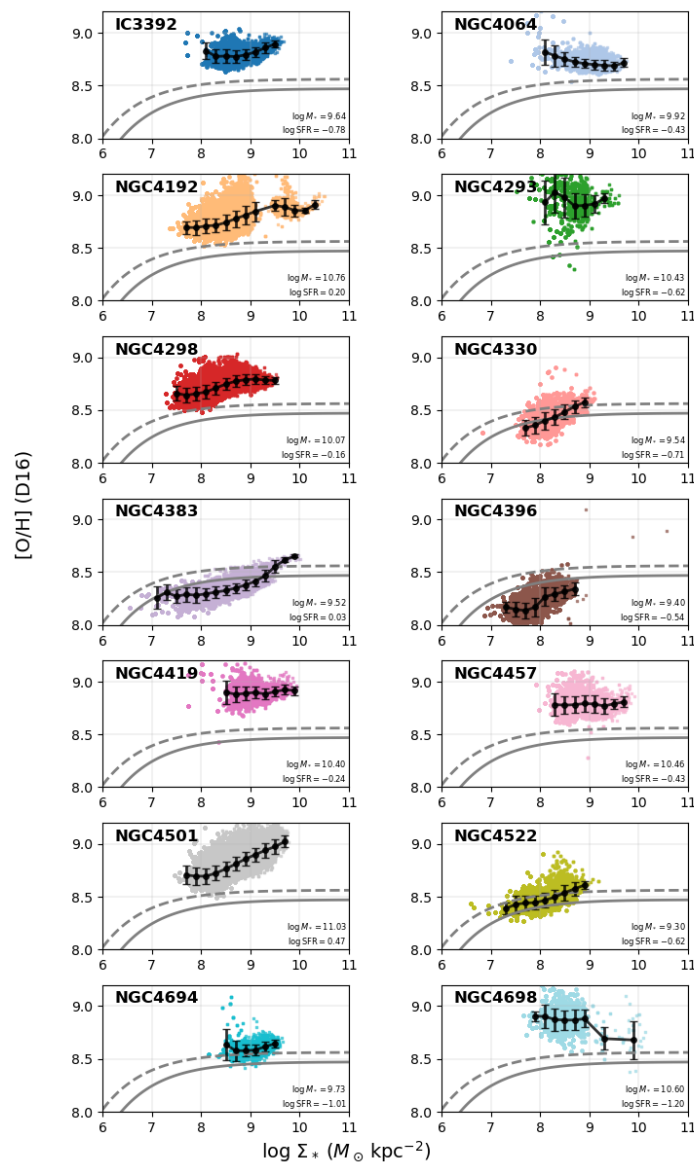14 MAUVE galaxies: Resolved Mass-Metallicity Relation (D16) - Colored by Galaxy

```
MEDIAN STATISTICS (0.2 dex bins) - D16 MZR (Galaxy colored)
==========================================================
INDIVIDUAL GALAXIES:
Galaxy    N_spax    Median([O/H])    Std([O/H])
Name      D16       range            range
----------------------------------------------------------
IC3392    17455     8.775-8.894      0.035-0.081
NGC4064   10329     8.687-8.819      0.041-0.120
NGC4192   234171    8.691-8.907      0.022-0.093
NGC4293   4873      8.897-9.028      0.046-0.206
NGC4298   172804    8.639-8.793      0.029-0.073
NGC4330   39969     8.329-8.573      0.048-0.083
NGC4383   45652     8.257-8.653      0.014-0.107
NGC4396   70755     8.136-8.341      0.053-0.089
NGC4419   13209     8.880-8.923      0.041-0.110
NGC4457   17661     8.769-8.807      0.047-0.106
NGC4501   370030    8.694-9.022      0.056-0.089
NGC4522   35239     8.385-8.608      0.039-0.079
NGC4694   2516      8.577-8.643      0.038-0.144
NGC4698   22437     8.678-8.905      0.046-0.178

==========================================================
COMBINED ANALYSIS:
Total D16 spaxels: 1,057,100
Median [O/H] range: 8.245 to 8.916
Std range: 0.042 to 0.251
Mean of medians: 8.694 ± 0.237
Mean std: 0.127 ± 0.052
Overall MZR slope: 0.215 dex/dex
MZR intercept: 6.822
==========================================================
```
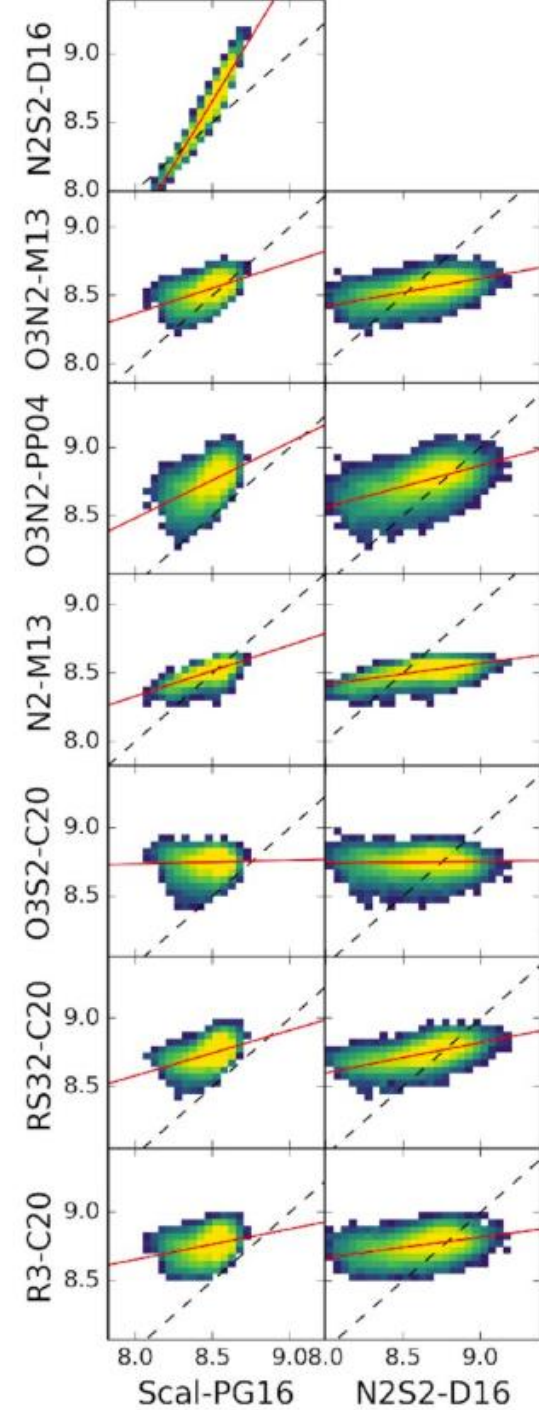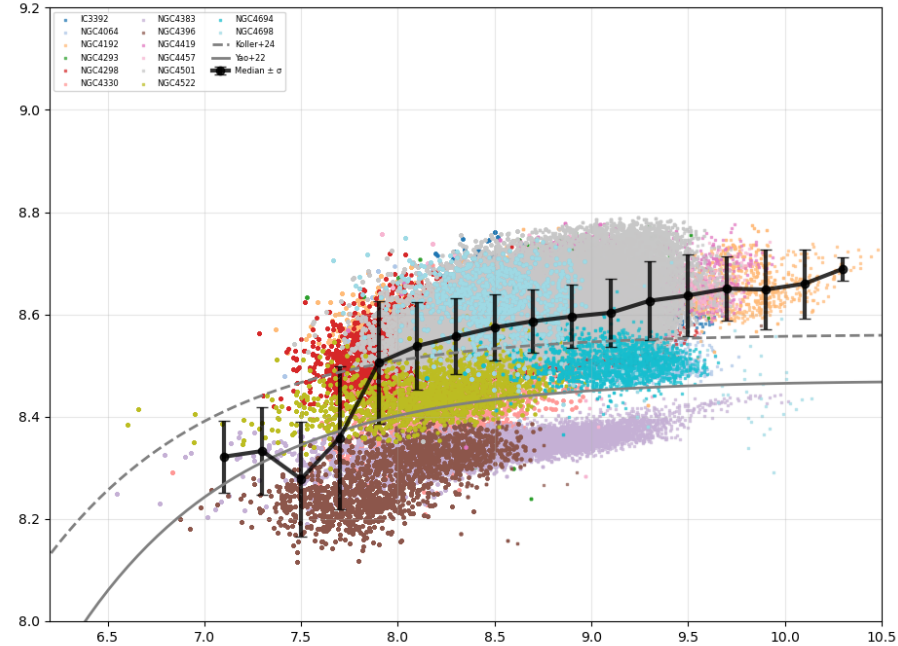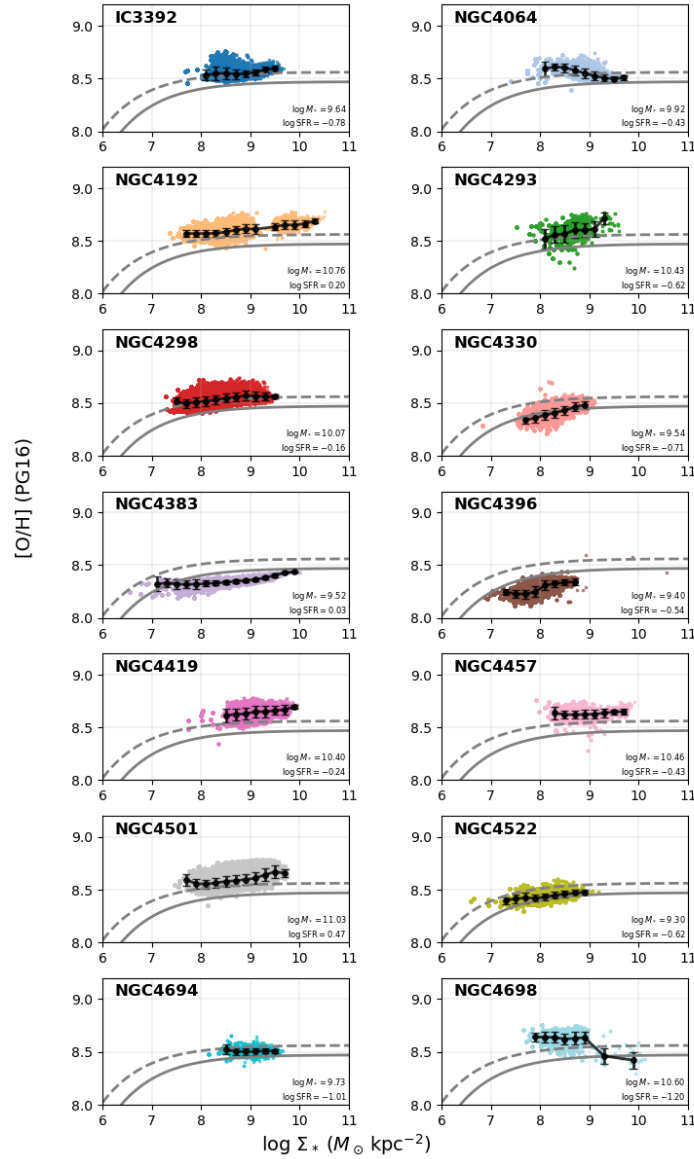
14 MAUVE galaxies: Resolved Mass-Metallicity Relation (PG16) - Colored by Galaxy

```
MEDIAN STATISTICS (0.2 dex bins) - PG16 MZR (Galaxy colored)
==============================================================
INDIVIDUAL GALAXIES:
Galaxy    N_spax    Median([O/H])    Std([O/H])
Name      PG16      range            range
--------------------------------------------------------------
IC3392    17455     8.532-8.596      0.024-0.063
NGC4064   10329     8.497-8.612      0.020-0.069
NGC4192   234171    8.568-8.689      0.023-0.047
NGC4293   4873      8.521-8.716      0.055-0.093
NGC4298   172804    8.494-8.569      0.019-0.047
NGC4330   39969     8.338-8.481      0.038-0.048
NGC4383   45652     8.318-8.437      0.005-0.070
NGC4396   70755     8.226-8.341      0.027-0.049
NGC4419   13209     8.613-8.699      0.018-0.064
NGC4457   17661     8.620-8.648      0.023-0.056
NGC4501   370030    8.552-8.668      0.034-0.060
NGC4522   35239     8.396-8.476      0.020-0.048
NGC4694   2516      8.501-8.520      0.019-0.045
NGC4698   22437     8.420-8.640      0.038-0.078

==============================================================
COMBINED ANALYSIS:
Total PG16 spaxels: 1,057,100
Median [O/H] range: 8.278 to 8.689
Std range: 0.023 to 0.140
Mean of medians: 8.539 ± 0.129
Mean std: 0.078 ± 0.026
Overall MZR slope: 0.120 dex/dex
MZR intercept: 7.491
==============================================================
```
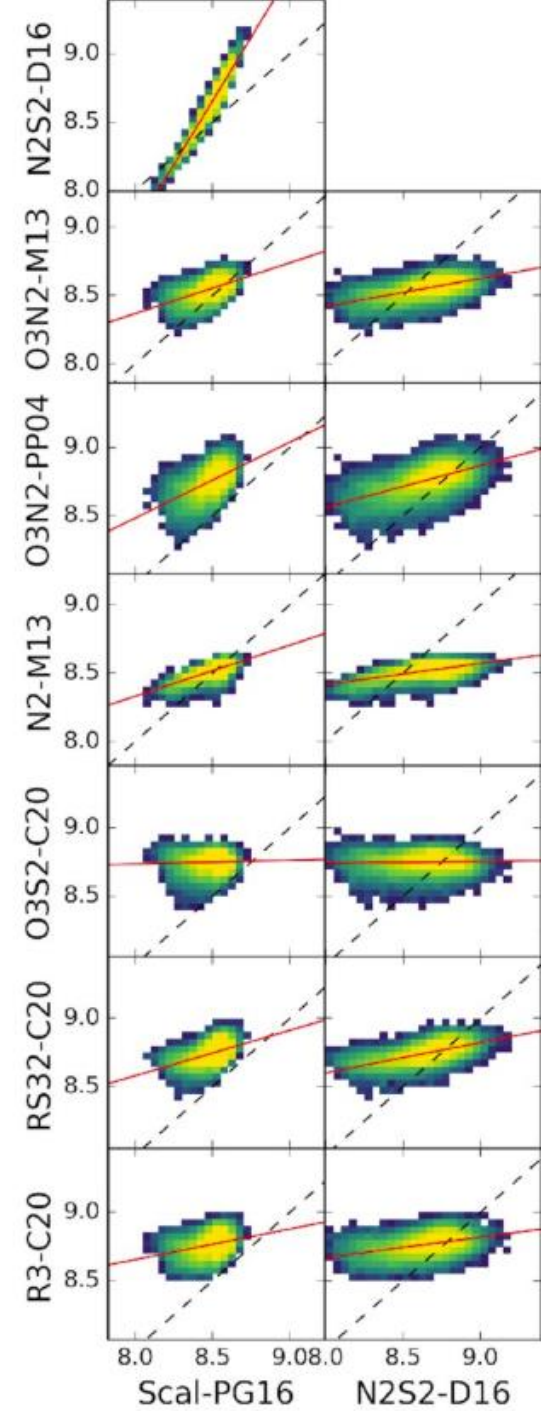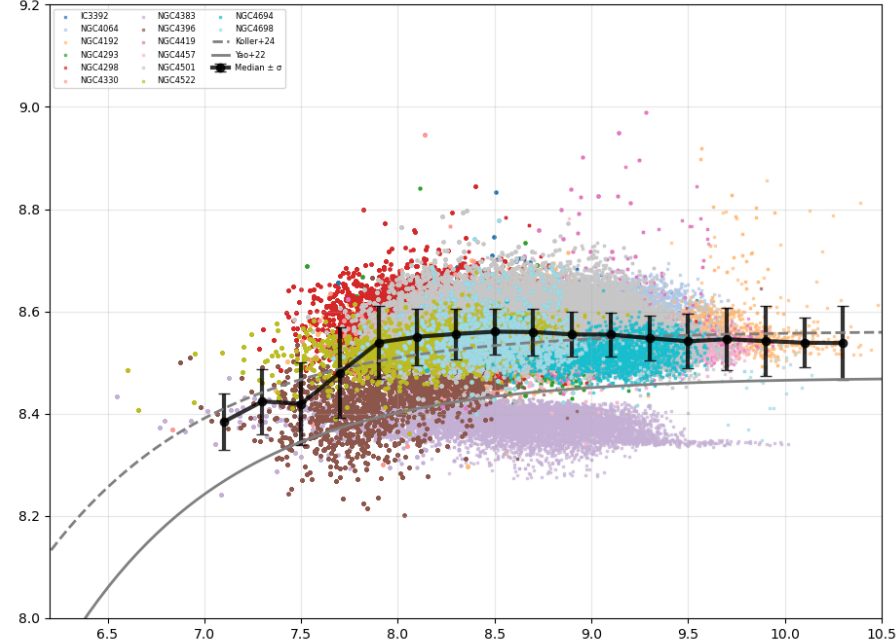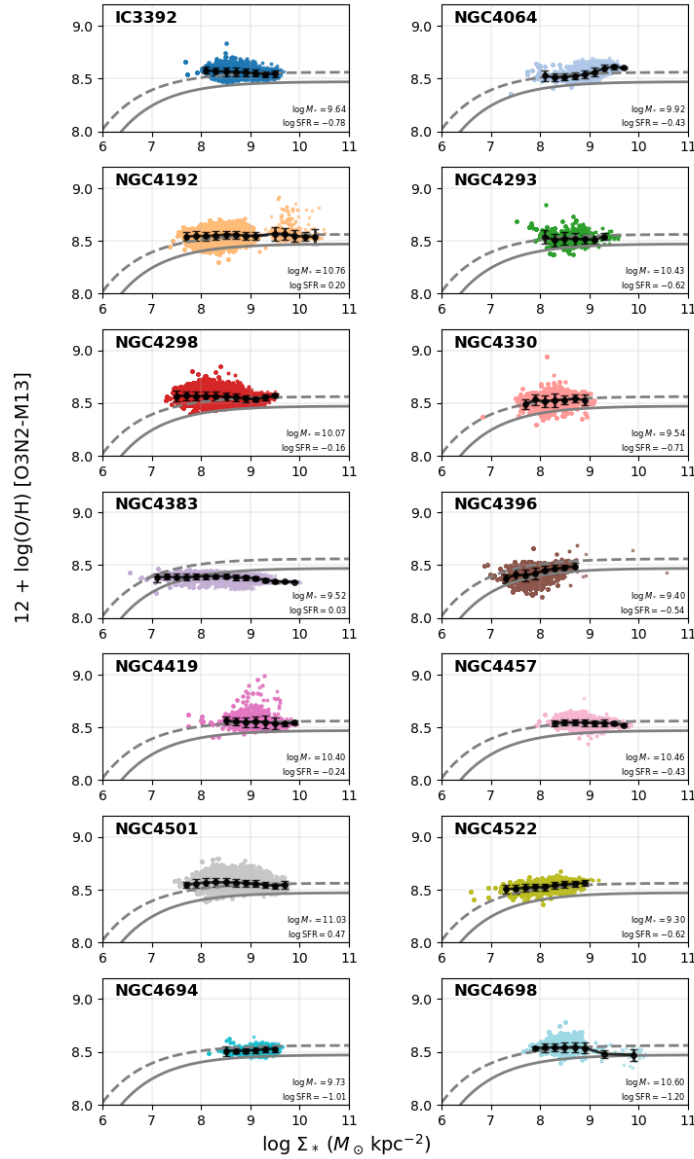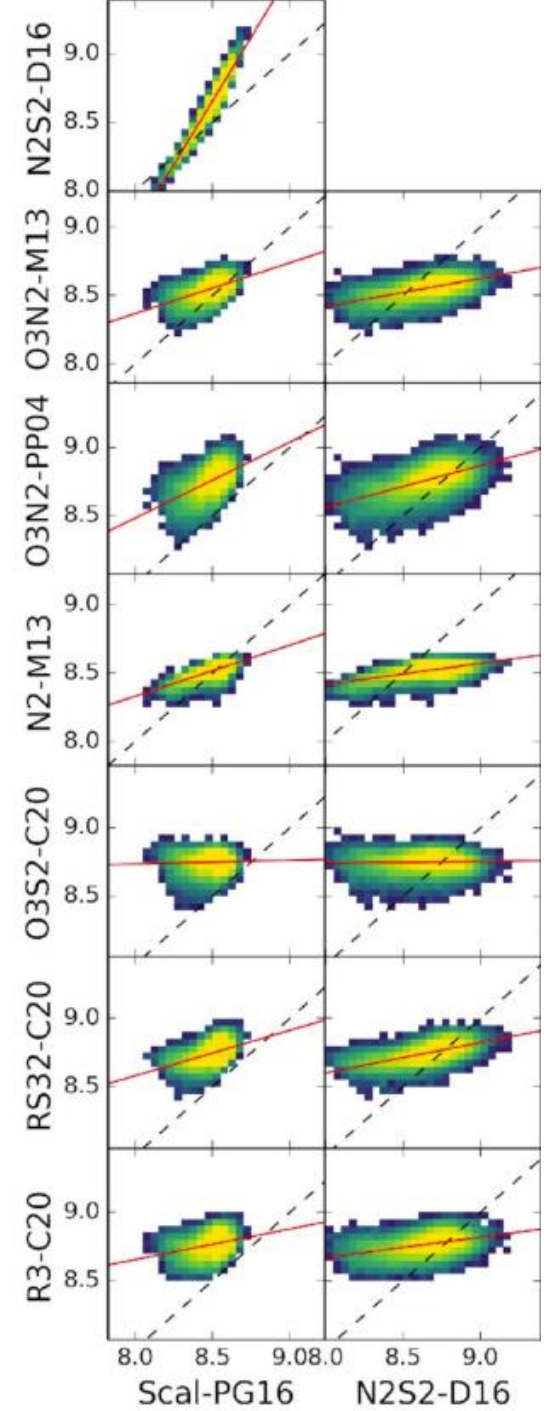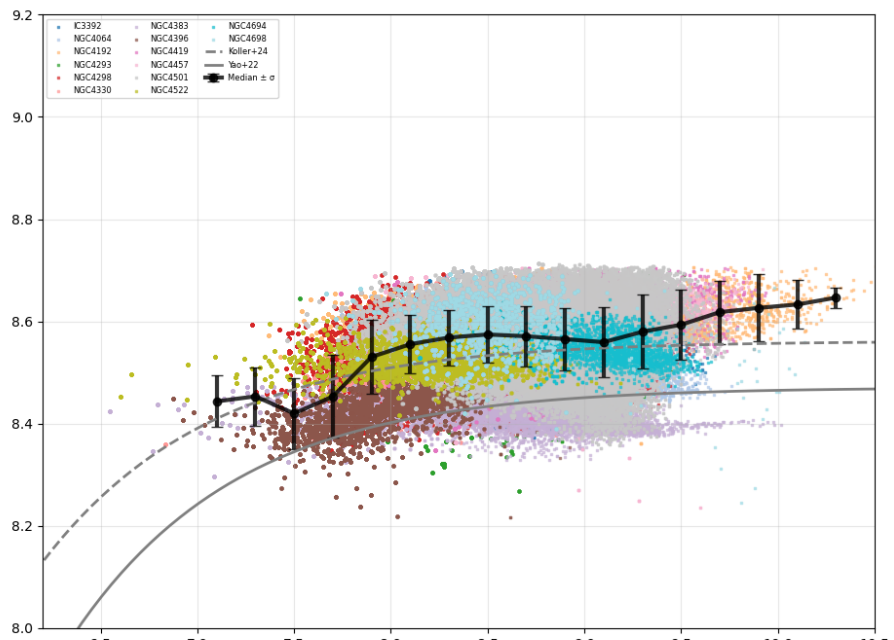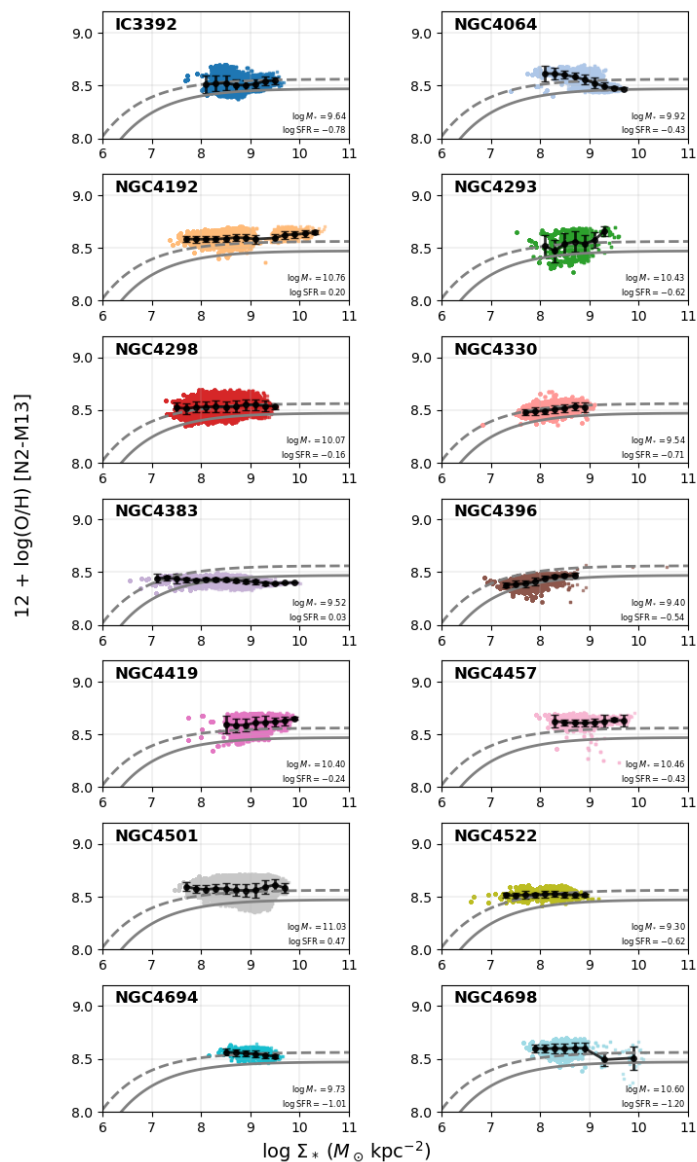
14 MAUVE galaxies: Resolved Mass-Metallicity Relation (O3N2-M13) - Colored by Galaxy

```
MEDIAN STATISTICS (0.2 dex bins) - rMZR O3N2-M13 Relation (Galaxy colored)
==============================================================
INDIVIDUAL GALAXIES:
Galaxy      N_spax    Median([O/H])       Std([O/H])
Name        Valid     range               range
--------------------------------------------------------------
IC3392      17455     8.542-8.580         0.026-0.042
NGC4064     10329     8.509-8.612         0.010-0.051
NGC4192     234171    8.538-8.567         0.036-0.073
NGC4293     4873      8.506-8.541         0.030-0.063
NGC4298     172804    8.537-8.567         0.019-0.049
NGC4330     39969     8.489-8.540         0.036-0.062
NGC4383     45652     8.343-8.395         0.002-0.041
NGC4396     70755     8.371-8.488         0.028-0.055
NGC4419     13209     8.534-8.564         0.016-0.059
NGC4457     17661     8.523-8.550         0.014-0.032
NGC4501     370030    8.535-8.569         0.027-0.042
NGC4522     35239     8.505-8.564         0.027-0.043
NGC4694     2516      8.508-8.527         0.020-0.046
NGC4698     22437     8.471-8.546         0.020-0.053

==============================================================
COMBINED ANALYSIS:
Total spaxels: 1,057,100
Median [O/H] range: 8.384 to 8.560
Std range: 0.042 to 0.089
Mean of medians: 8.520 ± 0.055
Mean std: 0.058 ± 0.014
Overall MZR slope: 0.038 dex/dex
MZR intercept: 8.190

METALLICITY CALIBRATION:
12 + log(O/H) = 8.533 - 0.214 × log₁₀(([OIII]λ5006 / Hβλ4861) / ([NII]λ6583 / Hαλ6562))
O3N2-M13 calibration (Marino et al. 2013)

LITERATURE FITS:
Yao+22: 12 + log(O/H) = 8.47 + 0.0002 × (log Σ* - 12.36) × exp(-(log Σ* - 12.36))
Koller+24: 12 + log(O/H) = 8.561 + 0.0001 × (log Σ* - 12.7) × exp(-(log Σ* - 12.7))
Valid spaxels determined from finite O/H regions
==============================================================
```

14 MAUVE galaxies: Resolved Mass-Metallicity Relation (N2-M13) - Colored by Galaxy

```
MEDIAN STATISTICS (0.2 dex bins) - rMZR N2-M13 Relation (Galaxy colored)
======================================================================
INDIVIDUAL GALAXIES:
Galaxy    N_spax    Median([O/H])          Std([O/H])
Name      Valid     range                  range
----------------------------------------------------------------------
IC3392    17455     8.504-8.547            0.031-0.086
NGC4064   10329     8.469-8.614            0.013-0.070
NGC4192   234171    8.581-8.646            0.020-0.042
NGC4293   4873      8.471-8.657            0.049-0.106
NGC4298   172804    8.513-8.550            0.025-0.055
NGC4330   39969     8.477-8.537            0.030-0.045
NGC4383   45652     8.394-8.446            0.004-0.046
NGC4396   70755     8.378-8.470            0.018-0.036
NGC4419   13209     8.586-8.653            0.016-0.082
NGC4457   17661     8.608-8.637            0.017-0.059
NGC4501   370030    8.558-8.611            0.037-0.067
NGC4522   35239     8.510-8.526            0.016-0.037
NGC4694   2516      8.521-8.563            0.020-0.032
NGC4698   22437     8.492-8.602            0.034-0.112

======================================================================
COMBINED ANALYSIS:
Total spaxels: 1,057,100
Median [O/H] range: 8.420 to 8.646
Std range: 0.020 to 0.081
Mean of medians: 8.552 ± 0.068
Mean std: 0.060 ± 0.013
Overall MZR slope: 0.064 dex/dex
MZR intercept: 7.993

METALLICITY CALIBRATION:
12 + log(O/H) = 8.743 + 0.462*N2
where N2 = log₁₀([NII]λ6583 / Hαλ6562)
N2-M13 calibration (Marino et al. 2013)

LITERATURE FITS:
Yao+22: 12 + log(O/H) = 8.47 + 0.0002 × (log Σ* - 12.36) × exp(-(log Σ* - 12.36))
Koller+24: 12 + log(O/H) = 8.561 + 0.0001 × (log Σ* - 12.7) × exp(-(log Σ* - 12.7))
Valid spaxels determined from finite O/H regions
======================================================================
```
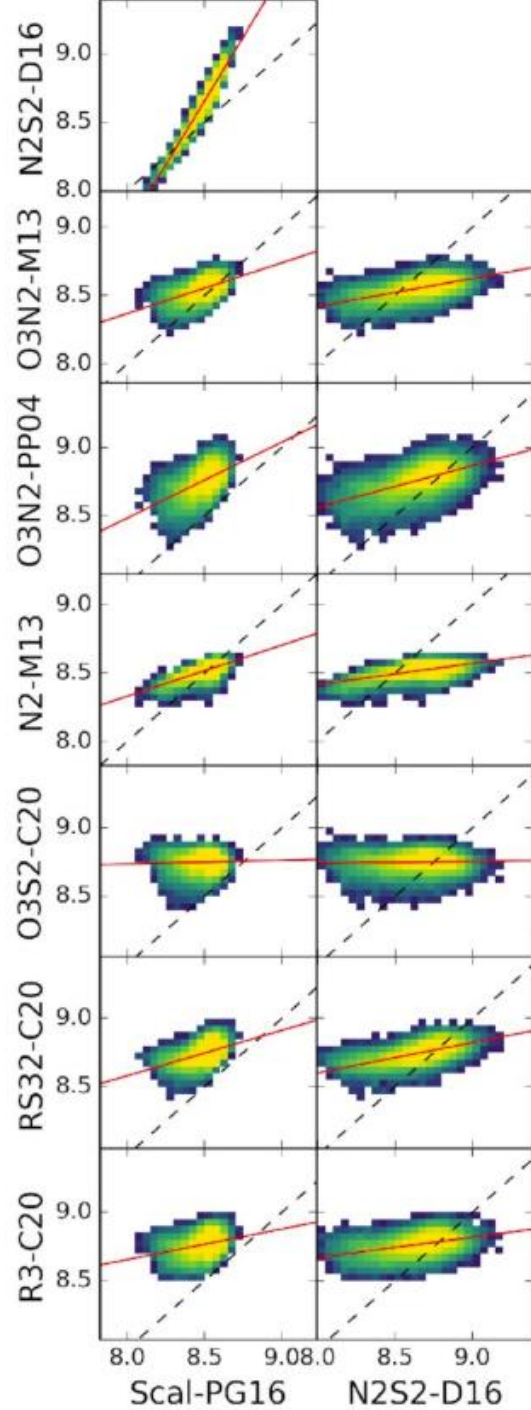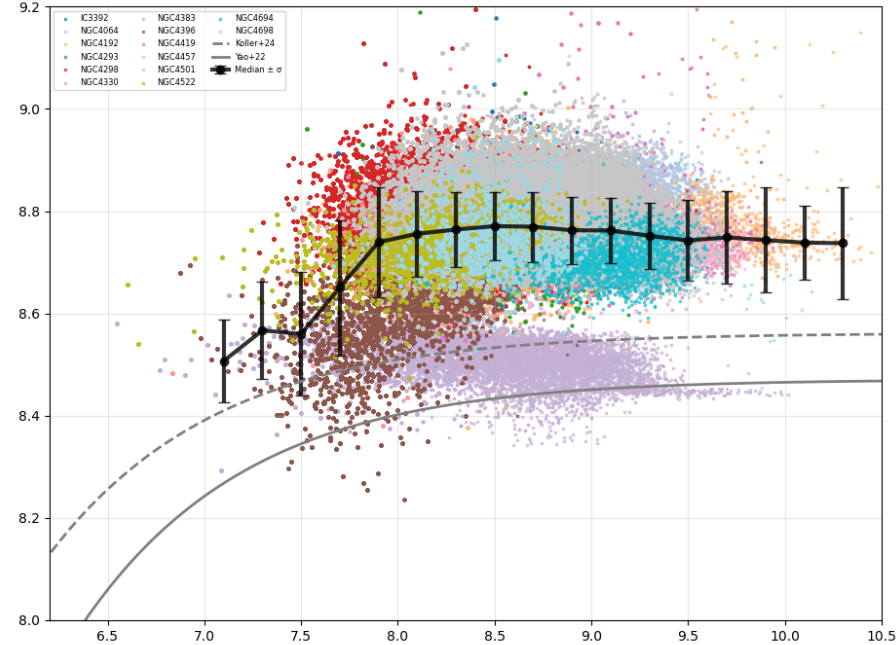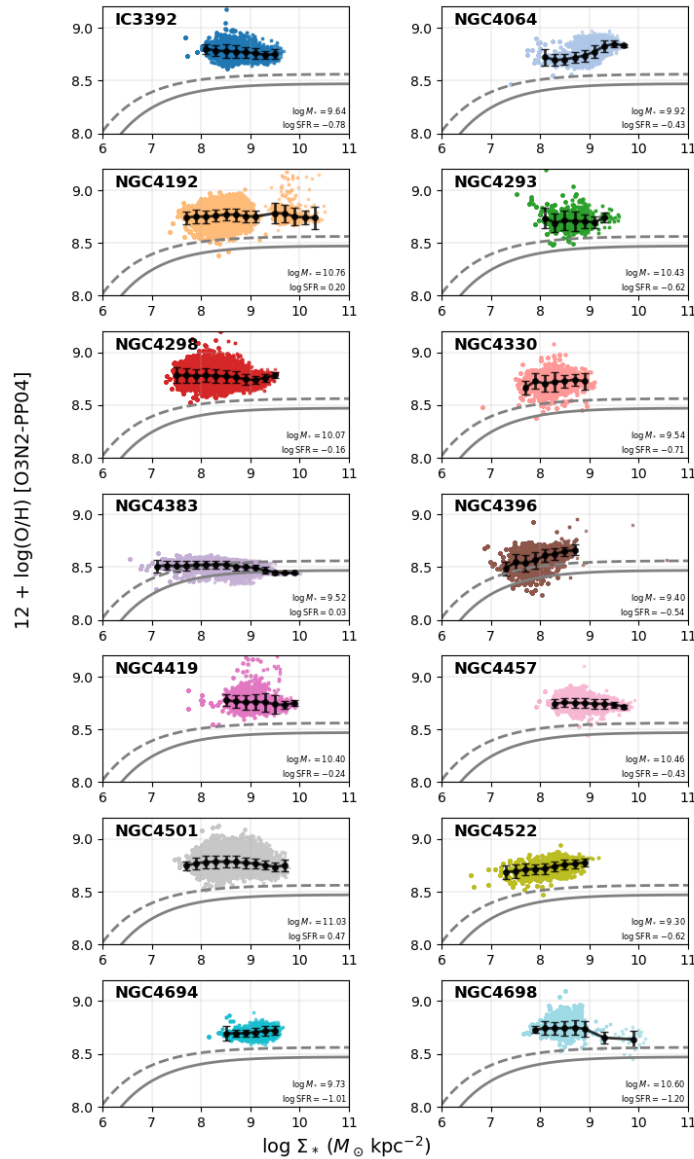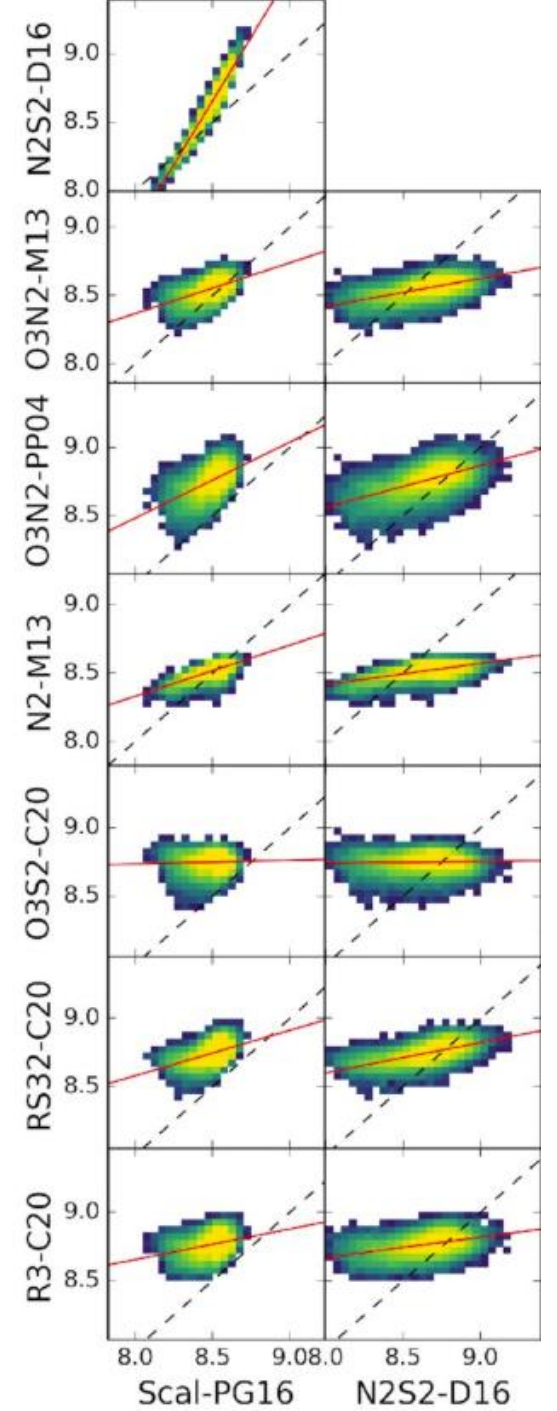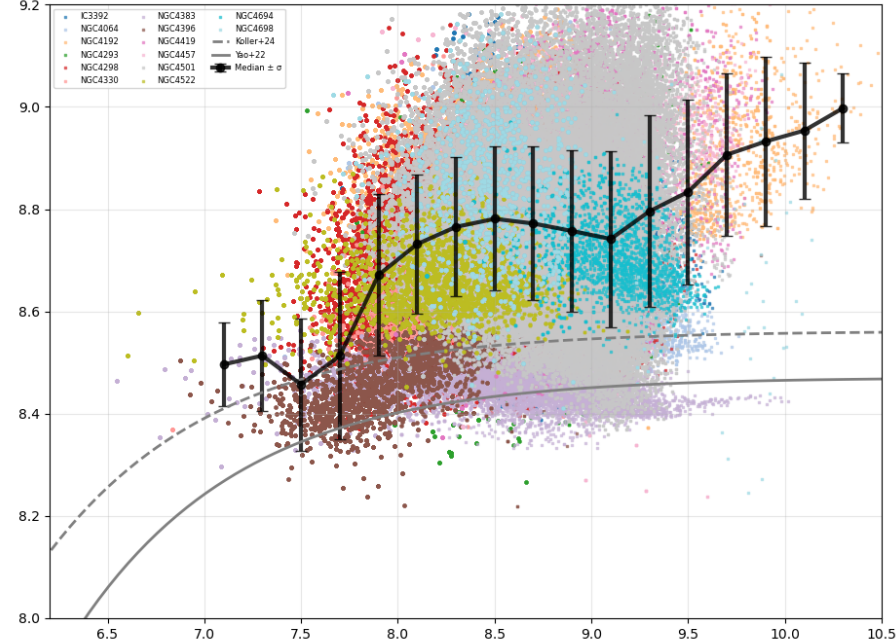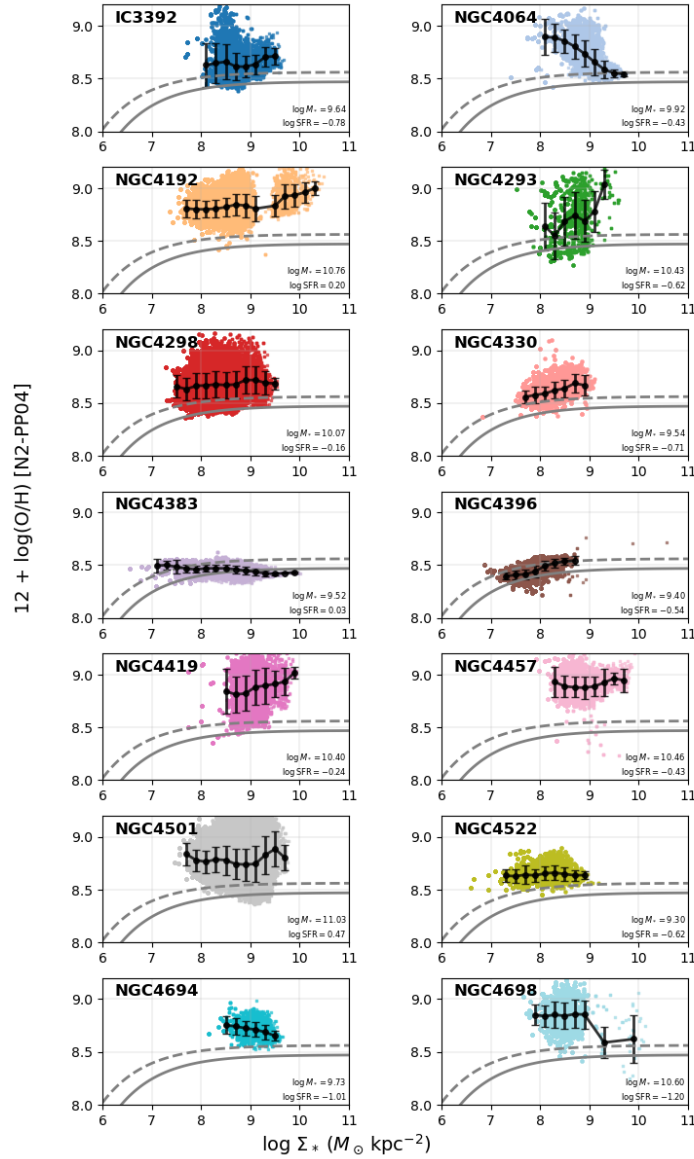
14 MAUVE galaxies: Resolved Mass-Metallicity Relation (O3N2-PP04) - Colored by Galaxy

```
MEDIAN STATISTICS (0.2 dex bins) - rMZR O3N2-PP04 Relation (Galaxy colored)
=====================================================================
INDIVIDUAL GALAXIES:
Galaxy    N_spax   Median[O/H]          Std([O/H])
Name      Valid    range                range
---------------------------------------------------------------------
IC3392    17455    8.743-8.801          0.039-0.063
NGC4064   10329    8.695-8.848          0.014-0.076
NGC4192   234171   8.737-8.781          0.054-0.109
NGC4293   4873     8.689-8.741          0.045-0.095
NGC4298   172804   8.736-8.782          0.028-0.073
NGC4330   39969    8.664-8.741          0.054-0.093
NGC4383   45652    8.446-8.524          0.003-0.061
NGC4396   70755    8.487-8.663          0.042-0.082
NGC4419   13209    8.732-8.776          0.024-0.088
NGC4457   17661    8.714-8.755          0.021-0.048
NGC4501   370030   8.734-8.784          0.040-0.062
NGC4522   35239    8.688-8.776          0.040-0.065
NGC4694   2516     8.693-8.721          0.030-0.069
NGC4698   22437    8.637-8.749          0.030-0.079
=====================================================================
COMBINED ANALYSIS:
Total spaxels: 1,057,100
Median [O/H] range: 8.507 to 8.771
Std range: 0.063 to 0.132
Mean of medians: 8.710 ± 0.082
Mean std: 0.087 ± 0.021
Overall MZR slope: 0.057 dex/dex
MZR intercept: 8.216

METALLICITY CALIBRATION:
12 + log(O/H) = 8.73 - 0.32 × log₁₀(([OIII]λ5006 / Hβλ4861) / ([NII]λ6583 / Hαλ6562))
O3N2-PP04 calibration (Marino et al. 2013)

LITERATURE FITS:
Yao+22: 12 + log(O/H) = 8.47 + 0.0002 × (log Σ* - 12.36) × exp(-(log Σ* - 12.36))
Koller+24: 12 + log(O/H) = 8.561 + 0.0001 × (log Σ* - 12.7) × exp(-(log Σ* - 12.7))
Valid spaxels determined from finite O/H regions
=====================================================================
```

14 MAUVE galaxies: Resolved Mass-Metallicity Relation (N2-PP04) - Colored by Galaxy

```
MEDIAN STATISTICS (0.2 dex bins) - rMZR N2-PP04 Relation (Galaxy colored)
========================================================================
INDIVIDUAL GALAXIES:
Galaxy    N_spax   Median([O/H])        Std([O/H])
Name      Valid    range                range
-----------------------------------------------------------------------
IC3392    17455    8.612-8.711          0.078-0.203
NGC4064   10329    8.543-8.895          0.026-0.174
NGC4192   234171   8.798-8.998          0.068-0.123
NGC4293   4873     8.547-9.033          0.139-0.232
NGC4298   172804   8.631-8.718          0.056-0.130
NGC4330   39969    8.557-8.687          0.059-0.099
NGC4383   45652    8.418-8.501          0.005-0.067
NGC4396   70755    8.395-8.544          0.031-0.054
NGC4419   13209    8.812-9.021          0.055-0.210
NGC4457   17661    8.876-8.965          0.056-0.141
NGC4501   370030   8.738-8.885          0.102-0.180
NGC4522   35239    8.626-8.660          0.034-0.085
NGC4694   2516     8.650-8.753          0.047-0.085
NGC4698   22437    8.588-8.858          0.098-0.223

========================================================================
COMBINED ANALYSIS:
Total spaxels: 1,057,100
Median [O/H] range: 8.457 to 8.998
Std range: 0.068 to 0.187
Mean of medians: 8.742 ± 0.161
Mean std: 0.143 ± 0.032
Overall MZR slope: 0.155 dex/dex
MZR intercept: 7.390

METALLICITY CALIBRATION:
12 + log(O/H) = 9.37 + 2.03×N2 + 1.26×N2² + 0.32×N2³
where N2 = log₁₀([NII]λ6583 / Hαλ6562)
N2-PP04 calibration (Pettini & Pagel 2004)

LITERATURE FITS:
Yao+22: 12 + log(O/H) = 8.47 + 0.0002 × (log Σ* - 12.36) × exp(-(log Σ* - 12.36))
Koller+24: 12 + log(O/H) = 8.561 + 0.0001 × (log Σ* - 12.7) × exp(-(log Σ* - 12.7))
Valid spaxels determined from finite O/H regions
========================================================================
```