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cap3          [2437]
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cap3    [2437, 2442]
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cap3    [2427, 2442]
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cap3    [2432, 2437]
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cap3    [2437, 2442]
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cap3          [2442]
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cap2    [2442, 2447]
cap3    [2437, 2442]
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cap3          [2437]
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cap3         [2437]
Name: channel, dtype: object, (2, 124): source
cap1         [2442]
cap2    [2457, 2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 123): source
cap1                   [2442]
cap2    [2442, 2447, 2457, 2462]
cap3           [2442, 2462]
Name: channel, dtype: object, (2, 135): source
cap1    [2442, 2462]
cap2         [2442]
cap3         [2462]
Name: channel, dtype: object, (2, 125): source
cap1    [2442, 2462]
cap2         [2457]
cap3         [2462]
Name: channel, dtype: object, (2, 121): source
cap1            [2442]
cap2    [2442, 2457, 2462]
cap3    [2442, 2457, 2462]
Name: channel, dtype: object, (2, 134): source
cap1    [2442, 2457, 2462]
cap2         [2442, 2447]
cap3         [2442, 2462]
Name: channel, dtype: object, (2, 111): source
cap1         [2462]
```

```
cap2    [2442, 2462]
cap3    [2442, 2462]
Name: channel, dtype: object, (2, 113): source
cap1    [2462]
cap2    [2442]
cap3    [2462]
Name: channel, dtype: object, (2, 122): source
cap1          [2462]
cap2    [2442, 2462]
cap3          [2462]
Name: channel, dtype: object, (2, 127): source
cap1    [2447, 2462]
cap2          [2462]
cap3          [2462]
Name: channel, dtype: object, (2, 169): source
cap1    [2447, 2457, 2462]
cap2                [2462]
cap3          [2457, 2462]
Name: channel, dtype: object, (2, 198): source
cap3    [2447, 2452, 2462]
Name: channel, dtype: object, (2, 192): source
cap3    [2447, 2452, 2457]
Name: channel, dtype: object, (2, 193): source
cap3    [2447, 2452, 2457, 2462]
Name: channel, dtype: object, (2, 195): source
cap1              [2452]
cap3    [2447, 2452, 2457]
Name: channel, dtype: object, (2, 210): source
cap1          [2452]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 191): source
cap1          [2452]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 197): source
cap1              [2452]
cap3    [2452, 2457, 2462]
Name: channel, dtype: object, (2, 199): source
cap1    [2452]
cap3    [2457]
Name: channel, dtype: object, (2, 207): source
cap1          [2452]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 209): source
cap1          [2452]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 190): source
```

```
cap1    [2452]
cap2    [2452]
cap3    [2457]
Name: channel, dtype: object, (2, 203): source
cap1         [2452]
cap3    [2452, 2457]
Name: channel, dtype: object, (2, 204): source
cap1    [2452]
cap3    [2457]
Name: channel, dtype: object, (2, 206): source
cap1         [2452]
cap3    [2452, 2457]
Name: channel, dtype: object, (2, 211): source
cap1             [2452]
cap3    [2452, 2457, 2462]
Name: channel, dtype: object, (2, 205): source
cap1             [2452]
cap3    [2452, 2457, 2462]
Name: channel, dtype: object, (2, 212): source
cap1    [2452, 2457]
cap2         [2452]
cap3    [2452, 2457]
Name: channel, dtype: object, (2, 202): source
cap1    [2452, 2457]
cap2         [2452]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 213): source
cap1         [2452]
cap3    [2452, 2457]
Name: channel, dtype: object, (2, 5): source
cap1    [2452, 2457, 2462]
cap2                [2462]
Name: channel, dtype: object, (2, 69): source
cap1    [2452, 2462]
cap2         [2462]
Name: channel, dtype: object, (2, 42): source
cap1    [2452, 2462]
cap2         [2462]
Name: channel, dtype: object, (2, 126): source
cap2    [2452, 2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 161): source
cap1         [2462]
cap2    [2452, 2457]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 148): source
```

As of December 5, 2023 (ap_data_5) with one 'zero'

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cap1                  [2462]
cap2    [2452, 2457, 2462]
cap3                  [2462]
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cap2    [2452, 2462]
Name: channel, dtype: object, (2, 21): source
cap1                  [2462]
cap2    [2452, 2457, 2462]
Name: channel, dtype: object, (2, 201): source
cap3    [2452, 2457]
Name: channel, dtype: object, (2, 167): source
cap1              [2462]
cap2         [2457, 2462]
cap3    [2452, 2457, 2462]
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cap3    [2452, 2457, 2462]
Name: channel, dtype: object, (2, 196): source
cap3    [2452, 2457, 2462]
Name: channel, dtype: object, (2, 194): source
cap3    [2452, 2457, 2462]
Name: channel, dtype: object, (2, 6): source
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cap2         [2462]
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cap2         [2462]
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cap1    [2457, 2462]
cap2         [2462]
Name: channel, dtype: object, (2, 77): source
cap1    [2457, 2462]
cap2         [2462]
Name: channel, dtype: object, (2, 59): source
cap1    [2457, 2462]
cap2         [2462]
Name: channel, dtype: object, (2, 34): source
cap1    [2457, 2462]
cap2         [2462]
Name: channel, dtype: object, (2, 41): source
cap1    [2457, 2462]
cap2         [2462]
Name: channel, dtype: object, (2, 50): source
cap1    [2457, 2462]
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 24): source
```

```
cap1     [2457, 2462]
cap2           [2462]
Name: channel, dtype: object, (2, 70): source
cap1     [2457, 2462]
cap2           [2462]
cap3           [2462]
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cap1     [2457, 2462]
cap2           [2462]
Name: channel, dtype: object, (2, 131): source
cap1     [2457, 2462]
cap2           [2462]
cap3           [2462]
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cap1     [2457, 2462]
cap2     [2457, 2462]
cap3           [2462]
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cap1     [2457, 2462]
cap2     [2457, 2462]
cap3           [2462]
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cap1     [2457, 2462]
cap2           [2462]
cap3     [2457, 2462]
Name: channel, dtype: object, (2, 133): source
cap1     [2457, 2462]
cap2           [2462]
cap3           [2462]
Name: channel, dtype: object, (2, 128): source
cap1     [2457, 2462]
cap2     [2457, 2462]
cap3           [2462]
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cap1           [2462]
cap2     [2457, 2462]
cap3           [2462]
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cap1           [2462]
cap2     [2457, 2462]
cap3           [2462]
Name: channel, dtype: object, (2, 150): source
cap1           [2462]
cap2     [2457, 2462]
cap3           [2462]
Name: channel, dtype: object, (2, 26): source
```

```
cap1          [2462]
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 137): source
cap1          [2462]
cap2    [2457, 2462]
cap3          [2462]
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cap2    [2457, 2462]
Name: channel, dtype: object, (2, 141): source
cap2    [2457, 2462]
cap3    [2457, 2462]
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cap2    [2457, 2462]
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cap2    [2457, 2462]
cap3          [2457]
Name: channel, dtype: object, (2, 151): source
cap1          [2462]
cap2    [2457, 2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 153): source
cap1          [2462]
cap2    [2457, 2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 154): source
cap1          [2462]
cap2    [2457, 2462]
cap3          [2462]
Name: channel, dtype: object, (2, 162): source
cap1          [2462]
cap2    [2457, 2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 52): source
cap1          [2462]
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 142): source
cap1          [2462]
cap2    [2457, 2462]
cap3          [2462]
Name: channel, dtype: object, (2, 9): source
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 12): source
cap1          [2462]
cap2    [2457, 2462]
```

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Name: channel, dtype: object, (2, 10): source
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 138): source
cap1         [2462]
cap2    [2457, 2462]
cap3         [2462]
Name: channel, dtype: object, (2, 149): source
cap1         [2462]
cap2    [2457, 2462]
cap3         [2462]
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cap2    [2457, 2462]
Name: channel, dtype: object, (2, 157): source
cap1         [2462]
cap2    [2457, 2462]
cap3         [2462]
Name: channel, dtype: object, (2, 17): source
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 143): source
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cap3         [2462]
Name: channel, dtype: object, (2, 102): source
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cap2    [2457, 2462]
cap3         [2462]
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Name: channel, dtype: object, (2, 104): source
cap1         [2462]
cap2    [2457, 2462]
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cap1         [2462]
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 116): source
cap1         [2462]
cap2    [2457, 2462]
cap3         [2462]
Name: channel, dtype: object, (2, 68): source
cap1         [2462]
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 109): source
cap1         [2462]
cap2    [2457, 2462]
```

```
Name: channel, dtype: object, (2, 118): source
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Name: channel, dtype: object, (2, 45): source
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cap2    [2457, 2462]
Name: channel, dtype: object, (2, 136): source
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cap3        [2462]
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cap2    [2457, 2462]
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cap1        [2462]
cap2    [2457, 2462]
Name: channel, dtype: object, (2, 103): source
cap1        [2462]
cap2        [2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 146): source
cap1        [2462]
cap2        [2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 145): source
cap1        [2462]
cap2        [2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 130): source
cap1        [2462]
cap2        [2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 158): source
cap1        [2462]
cap2        [2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 180): source
cap1        [2462]
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 155): source
```

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cap3    [2457, 2462]
Name: channel, dtype: object, (2, 208): source
cap3    [2457, 2462]
Name: channel, dtype: object, (2, 25): source
cap1    [2462]
cap2    [2462]
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cap2    [2462]
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cap2    [2462]
Name: channel, dtype: object, (2, 32): source
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cap2    [2462]
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cap2    [2462]
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cap2    [2462]
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cap2    [2462]
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cap2    [2462]
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cap2    [2462]
Name: channel, dtype: object, (2, 79): source
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cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
Name: channel, dtype: object, (2, 35): source
cap1    [2462]
cap2    [2462]
Name: channel, dtype: object, (2, 40): source
```

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cap1     [2462]
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Name: channel, dtype: object, (2, 44): source
cap1     [2462]
cap2     [2462]
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cap2     [2462]
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cap2     [2462]
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cap2     [2462]
Name: channel, dtype: object, (2, 36): source
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cap2     [2462]
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cap2     [2462]
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cap2     [2462]
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cap2     [2462]
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cap2     [2462]
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cap2     [2462]
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cap2     [2462]
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cap2     [2462]
Name: channel, dtype: object, (2, 46): source
cap1     [2462]
cap2     [2462]
Name: channel, dtype: object, (2, 39): source
cap1     [2462]
```

As of December 5, 2023 (ap_data_5) with one 'zero'

```
Name: channel, dtype: object, (2, 71): source
cap1    [2462]
cap2    [2462]
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cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
Name: channel, dtype: object, (2, 117): source
cap1    [2462]
cap2    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
Name: channel, dtype: object, (2, 159): source
cap1    [2462]
cap2    [2462]
cap3    [2462]
Name: channel, dtype: object, (2, 105): source
cap1    [2462]
cap2    [2462]
cap3    [2462]
```

```
Name: channel, dtype: object, (2, 119): source
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cap2    [2462]
cap3    [2462]
Name: channel, dtype: object, (2, 156): source
cap1    [2462]
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cap3    [2462]
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cap3    [2462]
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cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
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cap1    [2462]
cap2    [2462]
cap3    [2462]
Name: channel, dtype: object, (2, 139): source
cap1    [2462]
cap2    [2462]
cap3    [2462]
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cap2    [2462]
cap3    [2462]
Name: channel, dtype: object, (2, 29): source
cap2    [2462]
Name: channel, dtype: object}
```